# **Beaver Valley Power Station**

# Unit 1/2

# 1/2-ODC-1.01

# **ODCM:** Index, Matrix and History of ODCM Changes

# Document Owner Manager, Chemistry

| Revision Number          | 16                      |
|--------------------------|-------------------------|
| Level Of Use             | General Skill Reference |
| Safety Related Procedure | Yes                     |
| Effective Date           | 07/26/12                |

| Beaver Valley Power Station |        | Procedure Nun | nber:<br>/2-ODC-1.01   |                 |                         |
|-----------------------------|--------|---------------|--|-----------------|-------------------------|
| Title:                      | Title: |               | Unit:  | Level Of Use:   |                         |
|                             |        |               |  | 1/2             | General Skill Reference |
| ODC                         | M: In  | dex, Matri    | x and History of ODCM Changes  | Revision:<br>16 | Page Number:<br>2 of 98 |
|                             |        |               |  |                 |                         |
|                             |        |               | TABLE OF CONTENTS  |                 |                         |
| 1.0                         | PUR    | POSE          |  |                 | 4                       |
| 2.0                         | SCO    | PE            |  |                 | 4                       |
| 3.0                         | REF    | ERENCES       | AND COMMITMENTS  |                 | 4                       |
|                             | 3.1    | Reference     | es Used in This Procedure  |                 | 4                       |
|                             | 3.2    | Summary       | of References Used Throughout Other Procedure  | s of the OL     | DCM5                    |
|                             | 3.3    | Commitn       | nents  |                 |                         |
| 4.0                         | REC    | ORDS AN       | D FORMS  |                 |                         |
|                             | 4.1    | Records.      |  |                 |                         |
|                             | 4.2    | Forms         |  |                 |                         |
| 5.0                         | PREC   | CAUTION       | S AND LIMITATIONS  |                 |                         |
| 6.0                         | ACC    | EPTANCE       | CRITERIA   | •••••           |                         |
| 7.0                         | PRE    | REQUISIT      | ES   | •••••           |                         |
| 8.0                         | PRO    | CEDURE.       |  | •••••           |                         |
|                             | 8.1    | Descripti     | on of ODCM Structure   |                 |                         |
|                             |        | 8.1.1         | 1/2-ODC-1.01, ODCM: Index, Matrix and Histo  | ry of ODC       | M changes 16            |
|                             |        | 8.1.2         | 1/2-ODC-2.01, ODCM: Liquid Effluents   | •••••           |                         |
|                             |        | 8.1.3         | 1/2-ODC-2.02, ODCM: Gaseous Effluents  |                 |                         |
|                             |        | 8.1.4         | 1/2-ODC-2.03, ODCM: Radiological Environme   | ental Monit     | oring Program 19        |
|                             |        | 8.1.5         | 1/2-ODC-2.04, ODCM: Information Related to 4   | 10 CFK 190      | J 19                    |
|                             |        | 8.1.6         | Inputs   | I Procedure     | e and Source Term       |
|                             |        | 8.1.7         | 1/2-ODC-3.02, ODCM: Bases for ODCM Contr   | ols             |                         |
|                             |        | 8.1.8         | 1/2-ODC-3.03, ODCM: Controls for RETS and  | REMP Pro        | grams20                 |
|                             | 8.2    | History C     | of ODCM Changes  |                 |                         |
|                             |        | 8.2.1         | Change (1) of BV-1 ODCM (Issue 1), Effective J   | anuary, 19      | 84 21                   |
|                             |        | 8.2.2         | Change (2) of BV-1 ODCM (Issue 1, Rev 1), Eff  | ective Octo     | ober, 1984 21           |
|                             |        | 8.2.3         | Change (3) of BV-1 ODCM (Issue 1, Rev 2), Eff  | ective July     | , 1986 22               |
|                             |        | 8.2.4         | Change (4) of BV-1 ODCM (Issue 2), and BV-2  | ODCM (Is        | sue 1, Rev 1),          |
|                             |        | 075           | Change (5) of BV 1 ODCM (Jacua 2 Boy 1) and  | מה זעם          | CM (Icono 1             |
|                             |        | 0.2.3         | Change (3) of BV-1 ODCM (Issue 2, Rev 1), and<br>Pavision 2) Effective December 1087                                 | DV-2 UD         | CIVI (15500 1, 22)      |
|                             |        | 826           | Change (6) of BV 1 ODCM (Issue 2 Rev 2) and  |                 | $CM (I_{COUP} 1 Pev)$   |
|                             |        | 0.2.0         | $\begin{array}{c} \text{Change (0) of BV-1 ODCM (Issue 2, ReV 2), and} \\ \text{3) Effective lune 1080} \end{array}$ | D - 2 OD        | 23 CIVI (1550C 1, ICCV  |
|                             |        | 827           | Change (7) of BV-1 and 2 ODCM (Issue 3) Effe   | ctive Anon      | st 1995 25              |
|                             |        | 828           | Change (8) of BV-1 and 2 ODCM (Issue 3), Energy  | ) Effectiv      | e October 1995 30       |
|                             |        | 829           | Change (9) of BV-1 and 2 ODCM (Issue 3, Rev 2)   | 2) Effective    | e May 1997 33           |
|                             |        | 8 2 10        | Change $(10)$ of BV-1 and 2 ODCM (Issue 3, Rev.  | 3) Effectiv     | ve June 1997 34         |
|                             |        | 8.2.11        | Change (11) of BV-1 and 2 ODCM (Issue 3, Rev   | 4). Effectiv    | ve March 1998 34        |
|                             |        | 8.2.12        | Change (12) of BV-1 and 2 ODCM (Issue 3, Rev   | 5), Effectiv    | ve November 199836      |
|                             |        | 8.2.13        | Change (13) of BV-1 and 2 ODCM (Issue 3, Rev   | 6). Effectiv    | ve May 1999             |
|                             |        | 8.2.14        | Change (14) of BV-1 and 2 ODCM (Rev 14). Eff   | ective Mar      | ch 2000                 |
|                             |        | 8.2.15        | Change (15) of BV-1 and 2 ODCM (Rev 15). Eff   | ective Aug      | ust 2000                |
|                             |        | 8.2.16        | Change (16) of BV-1 and 2 ODCM (Effective Ar   | oril 2002)      |                         |
|                             |        | 8.2.17        | Change (17) of BV-1 and 2 OCDM (Effective Au   | gust 2002)      |                         |
|                             |        |               |  | - '             |                         |

| Beave                                  | er Valley Power Station                      | Procedure Nun<br>1 | iber:<br>/2_00C_1.01    |
|--|--|--------------------|-------------------------|
| Title:                                 |  | Unit:              | Level Of Use:           |
|  |  | 1/2                | General Skill Reference |
| ODCM: Index, Matri                     | x and History of ODCM Changes                | Revision:<br>16    | Page Number:<br>3 of 98 |
| ······································ |  | 1.0                | <u>5_01_20</u>          |
|  | TABLE OF CONTENTS                            |                    |                         |
| 8.2.18                                 | Change (18) of the BV-1 and 2 ODCM (Effectiv | e October 2        | 2002)                   |
| 8.2.19                                 | Change (19) of BV-1 and 2 ODCM (Effective N  | ovember 20         | )02)45                  |
| 8.2.20                                 | Change (20) of BV-1 and 2 ODCM (Effective O  | ctober 2003        | 3)                      |
| 8.2.21                                 | Change (21) of BV-1 and 2 ODCM (Effective N  | ovember 20         | )04)48                  |
| 8.2.22                                 | Change (22) of BV-1 and 2 ODCM (Effective A  | ugust 2006         | )51                     |
| 8.2.23                                 | Change (23) of BV-1 and 2 ODCM (Effective D  | ecember 20         | 06)52                   |
| 8.2.24                                 | Change (24) of BV-1 and 2 ODCM (Effective M  | ay 2007)           | 54                      |
| 8.2.25                                 | Change (25) of BV-1 and 2 ODCM (Effective M  | ay 2009)           | 57                      |
| 8.2.26                                 | Change (26) of BV-1 and 2 ODCM (Effective M  | ay 2009)           |                         |
| 8.2.27                                 | Change (27) of BV-1 and 2 ODCM (Effective A  | ugust 2010         | )                       |
| 8.2.28                                 | Change (28) of BV-1 and 2 ODCM (Effective D  | ecember 20         | 10)67                   |
| 8.2.29                                 | Change (29) of BV-1 and 2 ODCM (Effective Ja | nuary 2011         | )                       |
| 8.2.30                                 | Change (30) of BV-1 and 2 ODCM (Effective Se | plember 20         | JII)                    |
| 0.2.31<br>8 3 23                       | Change (32) of BV 1 and 2 ODCM (Effective E  | henery 201         | 2) 70                   |
| 8 7 33                                 | Change (32) of BV-1 and 2 ODCM (Effective In | ne 2012)           | 2)                      |
| 8 2 34                                 | Change (32) of BV-1 and 2 ODCM (Effective Ju | ne 2012)           | 71                      |
| ATTACHMENT A                           | LIST OF ODCM TABLES                          | 110 2012)          | 73                      |
| ATTACHMENT B                           | LIST OF ODCM FIGURES                         |                    |                         |
| ATTACHMENT C                           | ODCM CONTROLS PROCEDURE MATRIX               |                    |                         |
|  |  |                    |                         |
|  |  |                    |                         |
|  |  |                    |                         |
|  |  |                    |                         |
|  |  |                    |                         |
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|  |  |                    |                         |
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| Beaver Valley Power Station                     | Procedure Number:<br>1/2-ODC-1.01 |  |
|---|-----------------------------------|--|
| Title:  | Unit:<br>1/2                      | Level Of Use:<br>General Skill Reference |
| ODCM: Index, Matrix and History of ODCM Changes | Revision:<br>16                   | Page Number:<br>4 of 98                  |

# 1.0 <u>PURPOSE</u>

- 1.1 This procedure provides an index for the entire Offsite Dose Calculation Manual (ODCM).
- 1.2 This procedure also provides an historical description of all changes to the ODCM.
- 1.3 This procedure also contains a matrix of plant procedure references for Radiological Effluent Technical Specifications (RETS), Radiological Environmental Monitoring Program (REMP) surveillances that were transferred from the Technical Specification Procedure Matrix to the ODCM via Change (8) and Change (16).
  - 1.3.1 Prior to issuance of this procedure, these items were located in the Index and Appendix F of the old ODCM.
  - 1.3.2 The numbering of each specific ODCM Controls, ODCM Surveillance Requirements and ODCM Controls Tables contained in this procedure does not appear to be sequential. This is intentional, as all ODCM Controls, ODCM Surveillance Requirements and ODCM Controls Tables numbers remained the same when they were transferred from the Technical Specifications Procedure Matrix. This was done in an effort to minimize the amount of plant procedure changes and to eliminate any confusion associated with numbering changes.

#### 2.0 <u>SCOPE</u>

2.1 This procedure is applicable to all station personnel that are qualified to perform activities as described and referenced in this procedure.

#### 3.0 <u>REFERENCES AND COMMITMENTS</u>

- 3.1 <u>References Used in This Procedure</u>
  - 3.1.1 NUREG-0472, Draft 7 for Rev. 3, Standard Radiological Effluent Technical Specifications For PWRs September, 1982.
  - 3.1.2 NUREG-0133, Preparation Of Radiological Effluent Technical Specifications For Nuclear Power Plants, October, 1978.
  - 3.1.3 Generic Letter 89-01, Implementation Of Programmatic Controls For Radiological Effluent Technical Specifications In The Administrative Controls Section Of The Technical Specifications And The Relocation Of Procedural Details Of RETS To The ODCM Or To The PCP, January 31, 1989.
  - 3.1.4 NUREG-1301, Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls For Pressurized Water Reactors, Generic Letter 89-01, Supplement No. 1, April, 1991.
  - 3.1.5 1/2-ODC-3.03, ODCM: Controls for RETS and REMP Programs

|   | Beaver Valley Power Station   | Procedure Nu  | 1/2-ODC-1.01  |
|---|---|---|---|
| Title:  |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference  |
| ODCM: In  | dex, Matrix and History of ODCM Changes   | Revision:<br>16   | Page Number:<br>5 of 98   |
| 3.1.6   | 1/2-ADM-1640, Control of the Offsite Dose Calcula   | tion Manual   |   |
| 3.1.7   | 1/2-ADM-0100, Procedure Writer's Guide  |   |   |
| 3.1.8   | NOP-SS-3001, Procedure Review and Approval  |   |   |
| 3.1.9   | CR 04-09895, Missed ODCM Channel Functional T<br>Flowrate). CA-04, Revise ODCM procedure 1/2-OE<br>to show that the Channel Functional Test requirement<br>Measuring Devices delineated in ODCM procedure 1<br>Table 4.3-13 are being met by Form 1/2-ENV-01.04 | est (Gas Effluent<br>)C-1.01, Attachn<br>hts for the Unit 1<br>1/2-ODC-3.03, A<br>.F01 instead of 1 | t Sampler<br>nent C, Table F:3a<br>Sampler Flowrate<br>Attachment F,<br>MSP-43.71-I |
| 3.1.10  | CR 05-01169 Chemistry Action Plan For Transition<br>CA-14 thru CA-21, Revise ODCM procedures to cha<br>"Manager, Radiation Protection" to Manager Nuclea  | of RETS, REMP<br>ange document o<br>r Environmental   | and ODCM,<br>wner from<br>& Chemistry".   |
| 3.1.11 CR06-04908, Radiation Monitor Alarm Setpoint Discrepancies. CA-03; revise ODCM procedure 1/2-ODC-2.01 to update the alarm setpoints of [RM-1RM-100] and [RM-1DA-100] for incorporation of the Extended Power Uprate per Unit 1 TS Amendment No. 275. Also, CA-04; revised ODCM procedure 1/2-ODC-2.02 to add a"≤" designation to all alarm setpoints for Unit 1 and Unit 2 low range noble gas effluen monitors. |   | 03; revise ODCM<br>100] and<br>Unit 1 TS<br>DC-2.02 to add<br>re noble gas effluent                 |   |
| 3.1.12  | CR06-6476, Procedure 1/2-ODC-2.01 Needs Revised<br>ODCM procedure 1/2-ODC-2.01 to update the alarm<br>incorporation of the Extended Power Uprate per Unit   | d for Plant Uprat<br>setpoints of [2S<br>t 2 TS Amendme   | e. CA-01; revise<br>WS-RQ101] for<br>ent No. 156.                                   |
| 3.2 <u>Sur</u>  | nmary of References Used Throughout Other Procedu   | res of the ODCM   | <u>1</u>  |
| 3.2.1   | BVPS-1 and 2 UFSAR:   |   |   |
| 3.2.1   | .1 BVPS-1 UFSAR Section 11.2.3; Gaseous Was   | te Disposal Syste   | em  |
| 3.2.1   | .2 BVPS-1 UFSAR Section 11.2.4; Liquid Waste  | Disposal System   | . <sup>.</sup>  |
| 3.2.1   | .3 BVPS-2 UFSAR Section 11.2; Liquid Waste M  | lanagement Syst   | ems   |
| 3.2.1   | .4 BVPS-2 UFSAR Section 11.3; Gaseous Waste   | Management Sy   | stems   |
| 3.2.2   | Condition Reports and SAP Orders:   |   |   |
| 3.2.2   | .1 CR 971578, MEMBERS OF THE PUBLIC Dis<br>Section 4 of the ODCM to clarify how doses du<br>public (conducting activities inside the site bou   | screpancies. CA<br>le to effluents for<br>ndary) are derive   | -01, Revise<br>r members of the<br>ed and reported.                                 |
|   | 2 CR 980129 ODCM Procedure Matrix Discrete  | ancies CA-01 F  | Derites Ammendin F  |

| Beaver Valley Power Station                        |   | Procedure Number:<br>1/2-ODC-1.01        |  |  |
|--|---|--|--|--|
| Title:<br>Unit: Level Of Use:<br>1/2 General Skill |   | Level Of Use:<br>General Skill Reference |  |  |
| ODCM: Index,                                       | ODCM: Index, Matrix and History of ODCM Changes   |  | Page Number:<br>6 of 98                  |  |
| 3.2.2.3  | CR 980353, EPMP 2.01 Discrepancies for Environm CA-01, Revise Section 3 of the ODCM to correct RE sectors.  | ental Samp<br>MP sampl                   | bling Locations.<br>e site distances and |  |
| 3.2.2.4  | 3.2.2.4 CR 981488, Chemistry Related ODCM Procedures and ODCM Appendix F<br>References. CA-01, Revise ODCM Appendix F to add Chemistry procedure<br>references.   |  |  |  |
| 3.2.2.5  | 3.2.2.5 CR 981489, ODCM Table 4.11-2 Row A (Waste Gas Storage Tank Discharge Tritium). CA-01, Revise Appendix C of the ODCM (Table 4.11-2) to add clarification as to where and when tritium samples are to be obtained for GWST discharges.                                |  |  |  |
| 3.2.2.6  | 3.2.2.6 CR 981490, ODCM Table 4.11-2 Note e, and Related Chemistry Department<br>Procedures. CA-01, Revise Appendix C of the ODCM (Table 4.11-2, Note e) to<br>specify the proper tritium sample point.   |  |  |  |
| 3.2.2.7  | 3.2.2.7 CR 982097, Liquid Discharge Post Release Review Methodology. CA-01, Revise<br>Section 1 of the ODCM to add clarification for calculation of radionuclide<br>concentration when the Post Dose Correction Factor is >1.   |  |  |  |
| 3.2.2.8  | 2.8 CR 990025, Unnecessary Radiation Monitor Setpoint Change After Waste Discharges. No ODCM changes are required for this CR.  |  |  |  |
| 3.2.2.9  | 3.2.2.9 CR 992652, Discrepancies Concerning ODCM Surveillances of Unit 1 Gaseous<br>Effluent Instrumentation. CA-02, Revise Appendix F of the ODCM to make<br>proper reference to the HP Shift logs.  |  |  |  |
| 3.2.2.10   | CR 993021, Apparent Failure to Test RM-DA-100 Tr<br>ODCM. No ODCM changes are required for this CR  | ip Functio                               | n as Required by                         |  |
| 3.2.2.11   | 3.2.2.11 CR 001682, ODCM Action 28 Guidance. CA-02, Revise Appendix C of the ODCM (Table 3.3-13, Action 28) to differentiate actions associated with Inoperable Process Flow Rate Monitors vs. Sample Flow Rate Monitors.   |  |  |  |
| 3.2.2.12   | 3.2.2.12 CR 02-05533, Procedure 1/2-ODC-3.03, ATTACHMENT E Missing Information.<br>CA-01, Revise ODCM procedure 1/2-ODC-3.03 (Table 3.3-12) to include<br>minimum channels operable and associated actions when Flow Rate Measurement<br>Device [FR-1LW-103] is inoperable. |  |  |  |
| 3.2.2.13   | 3.2.2.13 CR 02-05711, TS and ODCM changes not reflected in 1OM-54.3.L5 Surveillance Log. CA-01, Revise 1/2-ODC-3.03 to add a requirement for applicable station groups notification of pending ODCM changes.  |  | 3.L5 Surveillance plicable station       |  |
|  |   |  |  |  |

| Beaver Valley Power Station  |   | Procedure Number:<br>1/2-ODC-1 01                   |  |
|--|---|---|--|
| Title:   |   | Unit:   | Level Of Use:  |
| ODCM: Index, N   | Aatrix and History of ODCM Changes  | I/Z<br>Revision:                                    | Page Number:   |
|  |   | 16  | 7 of 98  |
| 3.2.2.14 CR 02-06174, Tracking of Activities for Unit TRCS Zinc Addition<br>Implementation. CA-13, Revise ODCM procedure 1/2-ODC-1.01 to include a<br>discussion as to why Zn-65 is being added to the ODCM. CA-14, Revise ODCM<br>procedure 1/2-ODC-2.01 (Tables 1.1-1a and 1b) to include the addition of Zn-65<br>to ODCM liquid source term. |   |   | ion<br>D1 to include a<br>4, Revise ODCM<br>ddition of Zn-65 |
| <ul> <li>3.2.2.15 CR 03-02466, RFA-Radiation Protection Effluent Control Provide<br/>Recommendation on Processing when Performing Weekly Sample of<br/>[1LW-TK-7A/7B]. CA-02, Revise ODCM Procedure 1/2-ODC-2.01,<br/>(Attachment D) to show the liquid waste flow path cross-connect between Unit 1<br/>and Unit 2.</li> </ul>                  |   |   | de<br>ble of<br>·2.01,<br>t between Unit 1                   |
| 3.2.2.16   | CR 03-04830, Containment Vacuum Pump Replacem<br>Term. CA-03, Revise Unit 1 Containment Vacuum P<br>procedure 1/2-ODC-2.02, Attachment A, Table 2.1-1a  | ent Increas<br>ump Sourc<br>a.                      | es ODCM Source<br>e-Term in ODCM                             |
| 3.2.2.17   | 3.2.2.17 CR 03-06123, Enhance Table 3.3-6 of 1/2-ODC-3.03 to Add More Preplanned<br>Method of Monitoring. CA-01, Revise Table 3.3-6 and Table 4.3-3 to allow use of<br>Eberline SPING Channel 5 as an additional 2 <sup>nd</sup> PMM when the Unit 1 Mid or<br>High Range Noble Gas Effluent Monitors are Inoperable.                                       |   |  |
| 3.2.2.18   | 3.2.2.18 CR 03-06281, Gaseous Tritium Sampling Required by ODCM (1/2-ODC-3.03)<br>Unclear for Chemistry. CA-01, Revise procedure Attachment K Table 4.11-2 for<br>RP & Chemistry sampling of Gaseous Effluent Pathways to show which effluent<br>pathways need sampled for compliance to ODCM Control 3.11.2.1 requirements.                                |   |  |
| 3.2.2.19   | 3.2.2.19 CR 03-07487, Results of NQA Assessment of the Radiological Effluents Program.<br>CA-01, Revise Calculation Package No. ERS-ATL-95-007 to clarify the term<br>"Surface Water Supply" per guidance presented in NUREG-0800 SRP 15.7.3.<br>CA-05, Revise 1/2-ODC3.03 Control 3.11.1.4 to update the activity limits for the<br>outside storage tanks. |   |  |
| 3.2.2.20   | 3.2.2.20 CR 03-07668, Benchmark Effluent & Environmental Programs VS Papers<br>Presented at 13 <sup>th</sup> REMP/RETS Workshop. CA-01, Evaluate procedure<br>Attachment K Table 4.11-2 to reduce the amount of Effluent Samples obtained<br>during a power transient.  |   |  |
| 3.2.2.21   | CR 03-09288, LAR 1A-321 & 2A-193, Increased Flex<br>CA-19, Review LAR 1A-321/2A-193 to identify the a<br>procedures, programs, manuals, and applicable plant r<br>will need to be revised to support implementing the La  | cibility in N<br>ffected Rac<br>nodification<br>AR. | Aode Restraints.<br>d Effluent<br>n documents that           |
| 3.2.2.22   | CR 03-09959, RFA-Rad Protection Provide Clarification<br>Tritium Sample. CA-01, Revise ODCM procedure 1/2<br>(Table 4.11-2 note c & note e) to allow sampling of the<br>atmosphere.   | ion to ODC<br>2-ODC-3.0<br>e appropria              | CM 1/Day Air<br>3 Attachment K<br>ate building               |

| Beaver Valley Power Station  |   | Procedure Number:<br>1/2-ODC-1.01                                     |   |
|--|---|---|---|
| Title:   | Title:  |   | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matrix and History of ODCM Changes  |   | Revision:   | Page Number:<br>8 of 98   |
| 3.2.2.23 CR 03-11726, Typographical Error Found in ODCM 3.11.2.5. CA-01, Revise<br>ODCM procedure 1/2-ODC-3.03, Attachment O, Control 3.11.2.5 to correct a<br>typographical error. Specifically, the final word in Action (a) needs changed from<br>"nad" to "and". |   |   | CA-01, Revise<br>.5 to correct a<br>reds changed from                                   |
| 3.2.2.24   | 3.2.2.24 CR 04-00149, Radiation Protection Performance Review Committee Action Items.<br>CA-12. Incorporate the Global Positioning System [GPS] in the Radiological<br>Environmental Monitoring Program.  |   |   |
| 3.2.2.25   | 3.2.2.25 CR 04-01643, Procedure Correction – Typographical Error in the ODCM. CA-01,<br>Revise ODCM procedure 1/2-ODC-3.03, Attachment F, (Table 3.3-13 and 4.3-13)<br>to correct a typographical error. Specifically, the Asset Number for the Vacuum<br>Gauge used for measurement of sample flow (from the Alternate Sampling<br>Device) needs changed from [PI-1GW-13] to [PI-1GW-135]. |   |   |
| 3.2.2.26   | 3.2.2.26 CR 04-02275, Discrepancies in Table 3.3-13 of the ODCM. CA-01, Revise<br>ODCM procedure 1/2-ODC-3.03, Attachment F, (Table 3.3-13 and 4.3-13) to add<br>clarification that the "Sampler Flow Rate Monitors are the devices used for<br>"Particulate and Iodine Sampling".  |   |   |
| 3.2.2.27   | 3.2.2.27 CR 05-01169, Chemistry Action Plan For Transition of RETS, REMP and ODCM,<br>CA-14 thru CA-21, Revise ODCM procedures to change document owner from<br>"Manager, Radiation Protection" to Manager Nuclear Environmental &<br>Chemistry".   |   |   |
| 3.2.2.28   | 2.28 CR 05-01390, Include GPS data in 2004 REMP Report and related 1/2-ODC and 1/2-ENV procedures. CA-02, revise ODCM procedure 1/2-ODC-2.03 to include an update of REMP sample locations (using the GPS Satellite data).  |   |   |
| 3.2.2.29   | CR 05-03306, Incorporated Improved Technical Specific<br>includes transfer of programmatic controls for BV-2 Monitors [2MSS-RQ101A], [2MSS-RQ101B] and [2]<br>Technical Specifications to ODCM procedure 1/2-OD<br>Tables 3.3-6 and 4.3-3). This was permitted via Unit<br>Amendments No. 278/161.  | ifications (<br>Noble Gas I<br>MSS-RQ10<br>OC-3.03 (At<br>1/2 Technic | ITS). This<br>Effluent Steam<br>DIC] from the<br>tachment D<br>cal Specification        |
| 3.2.2.30   | <ul> <li>CR 05-03854, ODCM Figure for Liquid Effluent Release Points Needs Updated.</li> <li>CA-01, revise ODCM procedure 1/2-ODC-2.01 (ODCM: Liquid Effluents)</li> <li>Attachment D, Figure 1.4-3 to incorporate a modified version of Plant Drawing No. 8700-RM-27F.</li> </ul>  |   |   |
| 3.2.2.31   | CR 06-04908, Radiation Monitor Alarm Setpoint Disc<br>ODCM procedure 1/2-ODC-2.01 to update the alarm<br>and [RM-1DA-100] for incorporation of the Extended<br>Amendment No. 275. Also, CA-04; revised ODCM pr<br>add a" $\leq$ " designation to all alarm setpoints for Unit 1<br>gas effluent monitors.   | crepancies.<br>setpoints of<br>Power Up<br>rocedure 1/<br>and Unit 2  | CA-03; revise<br>[RM-1RM-100]<br>rate per Unit 1 TS<br>2-ODC-2.02 to<br>low range noble |

| Beaver Valley Power Station   |   | Procedure Number:<br>1/2-ODC-1 01                                    |   |
|---|---|--|---|
| Title:  |   | Unit:  | Level Of Use:   |
| ODCM: Index, Matrix and History of ODCM Changes   |   | 1/2<br>Revision:   | Page Number:  |
|   |   | 16   | <u>9 of 98</u>  |
| 3.2.2.32  | CR 06-6476, Procedure 1/2-ODC-2.01 Needs Revised<br>revise ODCM procedure 1/2-ODC-2.01 to update the  | d for Plant<br>alarm setp  | Uprate. CA-01;<br>oints of  |
|   | [2SWS-RQ101] for incorporation of the Extended Po<br>Amendment No. 156.   | wer Uprate   | per Unit 2 TS   |
| 3.2.2.33  | SAP Order 200197646-0110: Revise ODCM procedu<br>1/2-HPP-3.06.001, 1/2-ENV-05-01, Form 1/2-HPP-3  | re 1/2ODC  | -3.03,<br>5 and   |
|   | Form 1/2-ENV-05.1.F05 to incorporate revised outsic<br>limits via Calculation Package No. ERS-ATL-95-007  | le liquid sto<br>, R2.   | brage tank activity   |
| 3.2.2.34  | SAP Order 200240681: Revise ODCM procedure 1/2<br>Table 3.3-12) to add an alternate Action when the prin  | -ODC-3.03<br>mary Flow   | (Attachment E<br>Rate   |
|   | Measurement Device [FT-1CW-101-1] is not OPERA<br>Action (25A) uses local measurements (as described is<br>determine a total dilution flow rate during liquid efflu   | BLE. The<br>n 1MSP-31<br>ent releases                                | alternate<br>1.06-I) to<br>s.   |
| 3.2.2.35  | CR 06-04944: ODCM 3.03 Attachment E conflict bet<br>Action Statement. CA-01; revise ODCM procedure 1  | ween Appl<br>/2-ODC-3.   | icability and<br>03, Attachment E   |
|   | to clarify Applicability for tank level indicating devictank.   | es is during   | addition to the   |
| 3.2.2.36 CR 07-12924 and SAP Order 200247228-0410: Revise ODCM procedure<br>1/2-ODC-3.03 (Attachment F Tables 3.3-13 and 4.3-13) to clarify the Functiona<br>Location of the Sampler Flow Rate Monitors for the BV-2 gaseous effluent rele<br>pathways. Specifically, the procedure was changed to refer to Functional Locat<br>[2HVS-FIT101-1] instead of [2HVS-FIT101], [2RMQ-FIT301-1] instead of<br>[2RMQ-FIT301], [2HVL-FIT112-1] instead of [2HVL-FIT112], and<br>[2RMO-FIT303-1] instead of [2RMO-FIT303]. |   |  | procedure<br>y the Functional<br>us effluent release<br>unctional Location<br>] instead of<br>and |
| 3.2.2.37  | CR 09-53803-10: Revise ODCM procedure 1/2-ODC area and process monitors to Attachment D Tables 3.3  | -3.03 to add<br>3-6 and 4.3-   | d EAL related<br>3  |
| 3.2.2.38  | CR 09-53803-13: Revise ODCM procedure 1/2-ODC<br>MSP and OST references for EAL related area and proprocedure matrix.   | -1.01 to add<br>ocess moni   | d appropriate<br>tors to the  |
| 3.2.2.39  | SAP Order 200257692-0360 and 0390: Revise the pro-<br>1/2-ODC-1.01 to remove obsolete forms and procedur<br>Checks. Specifically, Form 1/2-ADM-0606.F01, Form<br>Form 1/2-HPP-3.07.003.F01 and procedures 1/2-HPP<br>and 1/2-HPP-3.06.012 were removed from the Attach<br>procedure matrix. | ecedure mat<br>res used for<br>n 1/2-ADM<br>-3.06.005,<br>ment C Tab | trix of<br>ODCM Channel<br>1-0606.F02,<br>1/2-HPP-3.06.006<br>bles of the                         |
| 3.2.2.40  | SAP Order 200197646-0300 and CR 07-31083: Revis<br>procedure 1/2-ODC-3.03 to add a definition for Channe<br>revise the definition for Channel Operational Test to in<br>have the same requirements and, therefore, are considered   | e ODCM<br>nel Function<br>ndicate that<br>ered equal.                | nal Test, and<br>these definitions  |

| Be  | aver Valley Power Station  | Procedure Nun<br>1.  | nber:<br>/2-ODC-1.01   |
|---|--|--|--|
| Title:  |  | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference   |
| ODCM: Index, N  | Matrix and History of ODCM Changes   | Revision:<br>16  | Page Number:<br>10 of 98   |
| <ul> <li>3.2.2.41 SAP Order 200247228-0450: Revise 1/2-ODC-3.03 Attachment E Table 3.3-12 and Attachment F, Tables 3.3-13 &amp; 4.3-13 to provide added clarifications, as follows: (1) add the word "or" where it is missing from Attachment F, Table 3.3-13 and 4.3-13, (2) remove grab samples from the list of alternates in Table 3.3-13 and 4.3-13, because a grab sample is an "action", not an "alternate", (3) add notations in Table 3.3-12 and 3.3-13 to indicate that Condition Report generation and reporting in the Radioactive Effluent Release Report (per Control 3.3.3.9 Action b and 3.3.3.10 Action b) do not apply when using an alternate to satisfy inoperability of the primary instrument beyond 30 days, and (4) remove surveillances for Preplanned Method of Monitoring (PMM) from Table 4.3-3, because surveillances only apply to instruments, not methods.</li> </ul> |  |  | E Table 3.3-12<br>ifications, as<br>nent F,<br>of alternates in<br>ot an "alternate",<br>dition Report<br>port (per<br>en using an<br>id 30 days, and<br>PMM) from<br>t methods. |
| 3.2.2.42  | SAP Order 200240681-0020 and 0040: Revise 1/2-OF<br>Table 3.3-12, Table 4.3-12 and Action 25A to clarify<br>the flow rate measurement devices used for the coolir  | DC-3.03 At<br>the 1 <sup>st</sup> and<br>ng tower blo                    | ttachment E,<br>2 <sup>nd</sup> alternates to<br>owdown line.  |
| 3.2.2.43  | 3.2.2.43 CR 05-00004-15, CR 05-00004-17 and SAP Order 200197646-0010 to revise<br>1/2-ODC-2.01. Add the Coolant Recovery Tanks [1BR-TK-4A/4B] as Liquid<br>Waste Tanks to Section 8.4 description and Attachment D Figures 1.4-1 and 1.4-2.<br>Add a default 2-tank volume recirculation time of 45.7 hrs for the Coolant<br>Recovery Tanks [1BR-TK-4A/4B] to Attachment B Table 1.2-1a. Add the<br>Cesium Removal Ion Exchangers [1BR-I-1A/1B and 2BRS-IOE21A/21B] to<br>Section 8.4 description and Attachment B Figures 1.4-1 and 1.4-2. Revise the<br>recirculation times in Attachment B Table 1.2-1a and 1.2-1b to indicate the times<br>for nominal tank volume and maximum tank volume.  |  |  |
| 3.2.2.44  | SAP Order 200197646-0660. Revise 1/2-ODC-2.01 A remove STP Outfalls 113 and 203 due to retirement o Plants and to remove Outfall 501. Water is no longer of the statement of the | Attachment<br>f the Seway<br>discharged                                  | D Figure 1.4-3 to<br>ge Treatment<br>via these outfalls.   |
| 3.2.2.45  | 3.2.2.45 SAP Order 200197646-0810. Revise 1/2-ODC-2.01 to incorporate alarm setpoints for all possible detector combinations for [RM-1DA-100]. Specifically, due to obsolescence of the original Model 843-30 and 843-32 detectors that were previously installed in [RM-1DA-100], the vendor has upgraded them to Model 843-30R and 843-32R detectors, which include upgraded efficiency data as well.  |  | ate alarm setpoints<br>fically, due to<br>that were<br>them to<br>efficiency data as   |
| 3.2.2.46  | CR 10-77489, Procedure 1/2-ODC-2.03 needs revised<br>Corrected sampling location descriptions for REMP T<br>sample designation from #49 to #49A; Clarified progr<br>sampling.  | l for labelin<br>LD #94 and<br>am require                                | g discrepancies.<br>d #95; Changed<br>ments for garden   |
| 3.2.2.47  | CR 10-86844 revises 1/2-ODC-2.01 to remove descrip<br>liquid waste are processed by recirculation through ed<br>Attachment B which referenced minimum liquid waste<br>times and added description that liquid waste recircula<br>tank volumes are calculated based upon actual tank vo   | otion that b<br>uctors. De<br>e batch rele<br>ation times<br>olume and p | atch releases of<br>leted<br>ease recirculation<br>to achieve two<br>pump capacity.  |

| Beaver Valley Power Station |  |  | Procedure Number:<br>1/2-ODC-1.01        |  |
|-----------------------------|--|--|--|--|
| Title:                      |  | Unit:<br>1/2                           | Level Of Use:<br>General Skill Reference |  |
| ODCM: Index,                | Matrix and History of ODCM Changes   | Revision:<br>16                        | Page Number:<br>11 of 98                 |  |
| 3.2.2.48                    | CR 10-85877, Selenium-75 (Se-75) discharge via U<br>revises ODCM procedure 1/2-ODC-2.02 to include (<br>(documented in RFCA Packages # BV20100284, BV<br>BV20110013).                      | 1/U2 Proce<br>dose factor<br>V20100285 | ess Vent. CA-02<br>s for Se-75<br>s, and |  |
| 3.2.2.49                    | CA G203-2011-97516-001, Retire TLD Station #88   | and add St                             | ation #88A.                              |  |
| 3.2.2.50                    | CR G203-2011-02332, Inability to meet ODCM request sampling in 2011 and CA G203-2011-02332-1, Mak  | uirements f<br>te changes              | for REMP milk to the ODCM.               |  |
| 3.2.2.51                    | ECP 11-0049 and CR 2012-02583 implement chang-<br>waste system for Phase 2 of Coolant Recovery Proje   | es to the de                           | sign of the liquid                       |  |
| 3.2.2.52                    | SAP Notification 600747531, Update 1/2-ODC-2.01  | for RM-1                               | RW-100.                                  |  |
| 3.2.2.53                    | CR-2012-05875, Antimony-126 identified in the liqu   | uid waste sy                           | ystem.                                   |  |
| 3.2.2.54                    | 3.2.2.54 SAP Notification 600765150, Request from Operations to allow discharge of water in high level drains tanks [LW-TK-2A/B] through low level waste tanks [LW-TK-3A/B] via RM-LW-104. |  |  |  |
| 3.2.3 <u>Cal</u>            | culation Packages:   |  |  |  |
| 3.2.3.1                     | ERS-ATL-83-027; Liquid Waste Dose Factor Calcul Issue 3 and Later  | lation for H                           | IPM-RP 6.5,                              |  |
| 3.2.3.2                     | ERS-SFL-85-031; Gaseous Effluent Monitor Efficie   | ncy Data                               |  |  |
| 3.2.3.3                     | ERS-ATL-86-008; ODCM Alarm Setpoint Revision   | s for Gasec                            | ous Monitors                             |  |
| 3.2.3.4                     | ERS-HHM-87-014; Unit 1/2 ODCM Gaseous Efflue Determinations  | nt Monitor                             | · Alarm Setpoint                         |  |
| 3.2.3.5                     | ERS-ATL-87-026; BVPS-1 and BVPS-2 ODCM T F   | Factor Justi                           | fication                                 |  |
| 3.2.3.6                     | ERS-ATL-89-014; Verification/Validation of ODCN  | A R Values                             |  |  |
| 3.2.3.7                     | ERS-ATL-90-021; Justification for Removal of Tech<br>Flowrate Measurement Requirements for 2RMQ-RQ<br>2HVL-RQ112   | inical Spec<br>2301, 2RM               | ification Process<br>Q-RQ303 and         |  |
| 3.2.3.8                     | ERS-ATL-95-006; Re-evaluation of TS/ODCM SR's Notes e and g of TS/ODCM Table 4.11-1  | 3 4.11.1.1.3                           | , 4.11.1.1.4 and                         |  |
| 3.2.3.9                     | ERS-ATL-95-007; Verification of Outside Storage T TS 3.11.1.4  | ank Activi                             | ty Limit of                              |  |
| 3.2.3.10                    | Stone and Webster UR(B)-160; BVPS Liquid Radwa<br>Concentrations - Expected and Design Cases (Per Ur   | iste Release<br>nit and Site           | es and                                   |  |

| Beaver Valley Power Station  |   | Procedure Number:<br>1/2-ODC-1.01 |  |
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| Title:   | Title:  |                                   | Level Of Use:<br>General Shill Deforence |
| ODCM: Index, Matrix and History of ODCM Changes  |   | Revision:                         | Page Number:                             |
|  |   | 16                                | 12 of 98                                 |
| 3.2.3.11   | Vendor Calculation Package No. 8700-UR(B)-223, In   | mpact of Atmospheric              |  |
|  | Alarm Setpoints for the Radiation Monitors at Unit 1  | le Source I                       | erms on the                              |
| 3.2.3.12   | Engineering Change Package No. ECP-04-0440, Exte  | ended Powe                        | er Uprate (Unit 1)                       |
| 3.2.3.13   | Vendor Calculation Package No. 8700-UR(B)-508, Ir   | npact of At                       | tmospheric                               |
|  | Containment Conversion, Power Uprate, and Alternat<br>Alarm Setpoints for the Radiation Monitors at Unit 2                  | te Source T                       | erms on the                              |
| 3.2.3.14   | Engineering Change Package No. ECP-04-0440, Exte  | ended Powe                        | er Uprate (Unit 2)                       |
| 3.2.3.15   | ERS-MPD-93-007. BVPS-1 Gaseous Radioactivity N  | Ionitor Em                        | ergency Action                           |
| 5.2.5.10   | Levels  |                                   |  |
| 3.2.3.16   | ERS-ATL-93-021, Process Alarm Setpoints for Liqui   | d Effluent ]                      | Monitors                                 |
| 3.2.4 <u>Inter</u>   | mal Letters:  |                                   |  |
| 3.2.4.1 DLC Response to NRC Unresolved Item 50-334/83-30-05, Radiation Monitor Study- Particle Distribution Evaluation, November 26, 1986. |   | ation Monitor                     |  |
| 3.2.4.2  | ND1SHP:776, BVPS-1 ODCM Table 2.2-2, Appendi  | x B, Februa                       | ary 12, 1988                             |
| 3.2.4.3  | ND3NSM:3431; Technical Specification Verification   | Effort, Au                        | gust 11, 1988                            |
| 3.2.4.4  | NDLNSM:3522; Technical Specification Verification September 14, 1988  | Effort Che                        | ecklist,                                 |
| 3.2.4.5  | ND1NSM:3652; Technical Specification Verification   | Effort, No                        | vember 21, 1988                          |
| 3.2.4.6  | 3.2.4.6 NPD3SHP:2466; Self Assessment of the Liquid and Gaseous Effluent Processes a BVPS - Final Report, July 16, 1997     |                                   | Iuent Processes at                       |
| 3.2.4.7  | NPD3SHP:2257; ODCM Liquid Waste Recirculation   | Rates, Feb                        | ruary 11, 1998                           |
| 3.2.4.8  | NPD3SHP:2643; Action 28 of ODCM Appendix C Ta   | able 3.3-13                       | , January 14, 1999                       |
| 3.2.4.9  | 3.2.4.9 ND3MNO:4309; Response to Request for Technical Specification Interpretation, April 20, 1999.                        |                                   | n Interpretation,                        |
| 3.2.5 <u>Cont</u>  | tractor Technical Evaluation Reports:   |                                   |  |
| 3.2.5.1  | EGG-PHY-8194; Technical Evaluation Report for the<br>Updated through Issue 2, Revision 1, Beaver Valley P<br>September 1988 | Evaluation<br>ower Static         | n of ODCM<br>on, Unit 1,                 |

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| В               | eaver Valley Power Station   | Procedure Nun<br>1           | nber:<br>/2-ODC-1.01                     |
|-----------------|--|------------------------------|--|
| Title:          |  | Unit:<br>1/2                 | Level Of Use:<br>General Skill Reference |
| ODCM: Index,    | Matrix and History of ODCM Changes   | Revision:<br>16              | Page Number:<br>13 of 98                 |
| 3.2.5.2         | EGG-PHY-8217; Technical Evaluation Report for the updated through Issue 1, Revision 2, Beaver Valley F September 1988    | e Evaluatio<br>Power Statio  | n of ODCM<br>on, Unit 2,                 |
| 3.2.5.3         | NUS-2173; Development of Terrain Adjustment Fact<br>Valley Power Station for the Straight-Line Atmosphe<br>June 1978     | tors For Use<br>eric Dispers | e at the Beaver<br>ion Model,            |
| 3.2.5.4         | UCRL-50564; Concentration Factors of Chemical Ele<br>Organisms, Revision 1, 1972   | ements in E                  | Edible Aquatic                           |
| 3.2.6 <u>NR</u> | <u>C Letters</u> :   |                              |  |
| 3.2.6.1         | Unit 1 Technical Specification Amendment 66, Marc  | h 28, 1983                   |  |
| 3.2.6.2         | Beaver Valley Unit 2 - Offsite Dose Calculation Man<br>July 14, 1987   | ual, ODCM                    | 1 (TAC 63996),                           |
| 3.2.6.3         | Beaver Valley Units 1 and 2 - Acceptance of the Offs<br>(TAC 93996 and 67421), March 2, 1989                             | ite Dose Ca                  | alculation Manuals                       |
| 3.2.6.4         | Unit 1/2 Technical Specification 6.8.6, including Ame<br>(LAR 1A-175/2A-37), Implemented August 7, 1995                  | endments 1                   | A-188/2A-70                              |
| 3.2.6.5         | Unit 1/2 Technical Specification 6.8.6, including Ame<br>(LAR's 1A-231/2A-101), Implemented December 1,                  | endments 1<br>1995           | A-194/2A-77                              |
| 3.2.6.6         | Unit 1/2 Technical Specification Figure 5.1-2, includi<br>Amendments 1A-202/2A-83 (LAR 1A-234/2A-107, I                  | ing<br>Implemente            | ed June 9, 1997                          |
| 3.2.6.7         | Unit 1/2 Technical Specifications 6.9.1.10 and 6.9.2,<br>Amendments 1A-220/2A-97 (LAR 1A-246/2A-116),                    | including<br>Implement       | ed May 20, 1999                          |
| 3.2.6.8         | Unit 1/2 Technical Specification 3.3.3.1, including Au<br>(LAR 1A-287/2A-159), Implemented April 11, 2002                | mendments                    | 1A-246/2A-124                            |
| 3.2.6.9         | Unit 1/2 Technical Specifications 3.11.1.4, 3.11.2.5, 6<br>Amendments 1A-250/2A-130 (LAR 1A-291/2A-163)<br>2002          | 5.8.6, and 6<br>, Implemen   | .9.2 including ted August 7,             |
| 3.2.7 <u>NU</u> | <u>REG's</u> :   |                              |  |
| 3.2.7.1         | NUREG-0017, Calculation of Releases of Radioactive<br>Liquid Effluents from Pressurized Water Reactors, (P<br>April 1985 | e Materials<br>WR- Gale (    | in Gaseous and<br>Code), Revision 1,     |
| 3.2.7.2         | NUREG 0133; Preparation of Radiological Effluent T<br>Nuclear Power Plants, October 1978                                 | echnical Sj                  | pecification for                         |

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|                | Beaver Valley Power Station  | Procedure Nur<br>1        | nber:<br>/2-ODC-1.01                     |
|----------------|--|---------------------------|--|
| Title:         |  | Unit:                     | Level Of Use:<br>General Skill Reference |
| ODCM: Inc      | lex, Matrix and History of ODCM Changes  | Revision:<br>16           | Page Number:<br>14 of 98                 |
| 3.2.7          | 3.2.7.3 NUREG-0172; Age-Specific Radiation Dose Commitment Factors for a One-Yea<br>Chronic Intake, November 1977  |                           | ors for a One-Year                       |
| 3.2.7          | 3.2.7.4 NUREG-0324, XOQDOQ, Program for the Meteorological Evaluation of Routine Releases at Nuclear Power Stations, September 1977  |                           |  |
| 3.2.7          | .5 NUREG-0472; Radiological Effluent Technical Spec  | ifications f              | or PWR's.                                |
| 3.2.7          | .6 NUREG-0800, Standard Review Plan, Postulated Ra<br>Liquid-Containing Tank Failures, July 1981   | dioactive R               | eleases Due to                           |
| 3.2.7          | <ul> <li>NUREG-1301; Offsite Dose Calculation Manual Gui</li> <li>Radiological Effluent Controls for Pressurized Water</li> <li>01, Supplement No. 1), April 1991</li> </ul>               | dance: Sta<br>Reactors (  | ndard<br>Generic Letter 89-              |
| 3.2.7          | 3.2.7.8 NUREG-1431; Standard Technical Specification - Westinghouse Plants Specifications  |                           |  |
| 3.2.7          | 3.2.7.9 NUREG/CR-2919; Meteorological Evaluation of Routine Effluent Releases At Nuclear Power Stations, September 1982  |                           |  |
| 3.2.8          | Regulatory Guides:   |                           |  |
| 3.2.8          | 1 RG-1.23; Meteorological Measurement Program For  | Nuclear Po                | ower Plants                              |
| 3.2.8.         | 3.2.8.2 RG-1.109; Calculation of Annual Doses to Man From Routine Releases of Reactor<br>Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50,<br>Appendix I, April 1977 |                           |  |
| 3.2.8.         | 3 RG-1.111; Methods For Estimating Atmospheric Tra<br>Gaseous Effluents In Routine Releases From Light-W<br>Revision 1, July 1977  | nsport And<br>/ater-Coole | Dispersion of<br>ed Reactors,            |
| 3.2.8.         | 4 RG-1.113; Estimating Aquatic Dispersion of Effluent<br>Routine Reactor Releases For The Purpose of Implen<br>April 1977  | s From Aco<br>nenting App | cidental and<br>pendix I,                |
| 3.3 <u>Con</u> | <u>mitments</u>  |                           |  |
| 3.3.1          | 10 CFR Part 20, Standards for Protection Against Radiation   | L                         |  |
| 3.3.2          | 10CFR20.1302, Compliance with Dose Limits for Individua  | al Members                | s of the Public.                         |
| 3.3.3          | 10 CFR Part 50, Domestic Licensing of Production and Util  | lization Fac              | cilities                                 |
| 3.3.4          | 10CFR50.36a, Technical Specifications on Effluents from N  | Nuclear Pov               | wer Reactors                             |
|                |  |                           |  |

| Beaver Valley Power Station   | Procedure Nu    | <sup>imber:</sup><br>1/2-ODC-1.01                      |
|---|-----------------|--|
| Title:  | Unit:<br>1/2    | Level Of Use:<br>General Skill Reference               |
| ODCM: Index, Matrix and History of ODCM Changes   | Revision:<br>16 | Page Number:<br>15 of 98                               |
| 3.3.5 Appendix I to 10 CFR Part 50, Numerical Guides For Design Objectives and Limiting<br>Conditions For Operation to Meet The Criterion "As Low As Reasonably Achievable"<br>For Radioactive Material in Light-Water-Cooled Nuclear Power Reactor Effluents |                 | ves and Limiting<br>ably Achievable"<br>ctor Effluents |

- 3.3.6 40 CFR Part 141
- 3.3.7 40 CFR Part 190, Environmental Radiation Protection Standards For Nuclear Power Operations
- 3.3.8 Licensee Response to NRC Unresolved Item 50-334/83-30-05. The Radiation Monitor Particle Distribution Evaluation showed that the Licensee must continue to use correction factors to determine particulate activity in samples obtained from the effluent release pathways.
- 3.3.9 CR 05-03854, ODCM Figure for Liquid Effluent Release Points Need Updated. CA-01, revise ODCM procedure 1/2-ODC-2.01 (ODCM: Liquid Effluents) Attachment D, Figure 1.4-3 to incorporate a modified version of Plant Drawing No. 8700-RM-27F.

# 4.0 RECORDS AND FORMS

# 4.1 <u>Records</u>

- 4.1.1 Any calculation supporting ODCM changes shall be documented, as appropriate, by a retrievable document (e.g.; letter or calculation package) with an appropriate RTL number.
- 4.1.2 Changes to the ODCM shall be documented and records of reviews shall be retained in accordance with the applicable record retention provisions of the quality assurance program description included in the Updated Final Safety Analysis Report.

# 4.2 <u>Forms</u>

4.2.1 None

# 5.0 PRECAUTIONS AND LIMITATIONS

- 5.1 This OFFSITE DOSE CALCULATION MANUAL (ODCM) provides the information and methodologies to be used by Beaver Valley Power Station Unit 1 and Unit 2 (BV-1) and (BV-2) to assure compliance with the Administrative Controls Section of the operating Technical Specifications. They are intended to show compliance with 10 CFR 20.1302,<sup>(3.2.1)</sup> 10 CFR 50.36a,<sup>(3.2.2)</sup> Appendix I of 10 CFR Part 50,<sup>(3.2.3)</sup> and 40 CFR Part 190.<sup>(3.2.4)</sup>
- 5.2 This ODCM is based on the NUREG's and Generic Letter documents from the United States Nuclear Regulatory Commission.<sup>(3.1.1, 3.1.2, 3.1.3, 3.1.4)</sup> Specific plant procedures for implementation of the ODCM are included in various site procedures and documents, and are utilized by the operating staff to assure compliance with Technical Specifications and the CONTROLS Procedure of the ODCM:<sup>(3.1.5)</sup>

| Beaver Valley Power Station                     |                 | Procedure Number:<br>1/2-ODC-1.01        |  |
|---|-----------------|--|--|
| Title:  | Unit:<br>1/2    | Level Of Use:<br>General Skill Reference |  |
| ODCM: Index, Matrix and History of ODCM Changes | Revision:<br>16 | Page Number:<br>16 of 98                 |  |

- 5.3 The ODCM has been prepared as generically as possible in order to minimize the need for future versions. However, some changes to the ODCM may be necessary in the future. Any such changes will be properly prepared, reviewed, and approved as indicated in the Administrative Control Section of the Technical Specifications.
  - 5.3.1 An implementation procedure for control of the ODCM is included in 1/2-ADM-1640.<sup>(3.1.6)</sup>
- 5.4 This procedure also contains information that was previously contained in Appendix F of the previous BV-1 and 2 Offsite Dose Calculation Manual.
  - 5.4.1 In regards to this, the Tables that were transferred from Appendix F to the appropriate ATTACHMENTS of this procedure will still contain a prefix denoting an "F".

# 6.0 ACCEPTANCE CRITERIA

- 6.1 All changes to this procedure shall contain sufficient justification that the change will maintain the level of radioactive Effluent Control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a and Appendix I to 10 CFR 50, and not adversely impact the accuracy or reliability of effluent dose or alarm setpoint calculation.<sup>(3.1.7)</sup>
  - 6.1.1 All changes to this procedure shall be prepared in accordance with 1/2-ADM-0100<sup>(3.1.7)</sup> and 1/2-ADM-1640.<sup>(3.1.6)</sup>
  - 6.1.2 All changes to this procedure shall be reviewed and approved in accordance with NOP-SS-3001 <sup>(3.1.8)</sup> and 1/2-ADM-1640. <sup>(3.1.6)</sup>

#### 7.0 <u>PREREQUISITES</u>

7.1 The user of this procedure shall be familiar with ODCM structure and content.

#### 8.0 PROCEDURE

- 8.1 Description of ODCM Structure
  - 8.1.1 <u>1/2-ODC-1.01, ODCM: Index, Matrix and History of ODCM changes</u> (formerly: ODCM Index and Appendix F)
    - 8.1.1.1 History of ODCM Changes
    - 8.1.1.2 Summary of ODCM References
    - 8.1.1.3 List of Tables (ATTACHMENT A)
    - 8.1.1.4 List of Figures (ATTACHMENT B)
    - 8.1.1.5 Matrix of Procedures Used to Meet ODCM Controls (ATTACHMENT C)
      - 8.1.1.5.1 BV-1 Radiation Monitor Surveillances

| Beave                             | er Valley Power Station                                     | Procedure Num<br>1 | nber:<br>/2-ODC-1.01                     |
|-----------------------------------|---|--------------------|--|
| Title:                            |   | Unit:<br>1/2       | Level Of Use:<br>General Skill Reference |
| ODCM: Index, Matri                | x and History of ODCM Changes                               | Revision:<br>16    | Page Number:<br>17 of 98                 |
| 8.1.1.5.2                         | BV-1 Liquid Effluent Monitor Surveillances                  |                    |  |
| 8.1.1.5.3                         | BV-2 Liquid Effluent Monitor Surveillances                  |                    |  |
| 8.1.1.5.4                         | BV-1 Gaseous Effluent Monitor Surveillances                 |                    |  |
| 8.1.1.5.5                         | BV-2 Gaseous Effluent Monitor Surveillances                 |                    |  |
| 8.1.1.5.6                         | BV-1 and 2 Liquid Effluent Concentration Sur-               | veillances         |  |
| 8.1.1.5.7                         | BV-1 and 2 Liquid Effluent Dose Surveillances               | 5                  |  |
| 8.1.1.5.8                         | BV-1 and 2 Liquid Effluent Treatment Surveill               | ances              |  |
| 8.1.1.5.9                         | BV-1 and 2 Gaseous Effluent Air Dose Surveil                | lances             |  |
| 8.1.1.5.10                        | BV-1 and 2 Gaseous Effluent Particulate and Id              | odine Surve        | illances                                 |
| 8.1.1.5.11                        | BV-1 and 2 Gaseous Effluent Treatment Surve                 | illances           |  |
| 8.1.1.5.12                        | BV-1 and 2 Gaseous Effluent Total Dose Surve                | eillances          |  |
| 8.1.1.5.13                        | 8.1.1.5.13 BV-1 and 2 Gaseous Effluent REMP Surveillances   |                    |  |
| 8.1.1.5.14                        | BV-1 and 2 Gaseous Effluent Land Use Census                 | s Surveillan       | ces                                      |
| 8.1.1.5.15                        | BV-1 and 2 Gaseous Effluent Interlaboratory C Surveillances | omparison          | Program                                  |
| 8.1.2 <u>1/2-ODC</u><br>(formerly | -2.01, ODCM: Liquid Effluents<br>; ODCM Sections 1 and 5)   |                    |  |
| 8.1.2.1 Ala                       | rm Setpoints  |                    |  |
| 8.1.2.1.1                         | BV-1 Setpoint Determination Based On A Con                  | servative M        | lix                                      |
| 8.1.2.1.2                         | BV-1 Setpoint Determination Based On Analys                 | sis Prior To       | Release                                  |
| 8.1.2.1.3                         | BV-2 Setpoint Determination Based On A Con                  | servative M        | lix                                      |
| 8.1.2.1.4                         | BV-2 Setpoint Determination Based On Analys                 | is Prior To        | Release                                  |
| 8.1.2.2 Cor                       | npliance With 10 CFR 20 EC Limits                           |                    |  |
| 8.1.2.2.1                         | Batch Releases  |                    |  |
| 8.1.2.2.2                         | Continuous Releases   |                    |  |
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| Beave                               | r Valley Power Station                                    | Procedure Num<br>1 | 1995.<br>12-0DC-1.01                    |
|-------------------------------------|---|--------------------|---|
| Title:                              |   | Unit:              | Level Of Use:                           |
| ODCM: Index, Matrix                 | and History of ODCM Changes                               | I/2<br>Revision:   | General Skill Reference<br>Page Number: |
|                                     |   | 16                 | 18 of 98                                |
| 8.1.2.3 Cor                         | npliance With 10 CFR 50 Dose Limits                       |                    |   |
| 8.1.2.3.1                           | Cumulation Of Doses                                       |                    |   |
| 8.1.2.3.2                           | Projection Of Doses                                       |                    |   |
| 8.1.2.4 Liq                         | uid Radwaste Treatment System                             |                    |   |
| 8.1.2.4.1                           | BV-1 Liquid Radwaste Treatment System Com                 | ponents            |   |
| 8.1.2.4.2                           | BV-1 Laundry and Contaminated Shower Drain                | n System C         | omponents                               |
| 8.1.2.4.3                           | BV-2 Liquid Radwaste Treatment System Com                 | iponents           |   |
| 8.1.2.5 Site                        | Boundary for Liquid Effluents                             |                    |   |
| 8.1.2.5.1                           | Liquid Effluent Site Boundary                             |                    |   |
| 8.1.3 <u>1/2-ODC-</u><br>(formerly) | 2.02, ODCM: Gaseous Effluents<br>; ODCM Sections 2 and 5) |                    |   |
| 8.1.3.1 Ala                         | rm Setpoints  |                    |   |
| 8.1.3.1.1                           | BV-1 Setpoint Determination Based On A Calc               | ulated Mix         |   |
| 8.1.3.1.2                           | BV-1 Setpoint Determination Based On Analys               | sis Prior To       | Release                                 |
| 8.1.3.1.3                           | BV-2 Setpoint Determination Based On A Calc               | ulated Mix         |   |
| 8.1.3.1.4                           | BV-2 Setpoint Determination Based On Analys               | sis Prior To       | Release                                 |
| 8.1.3.1.5                           | BV-1/2 Setpoint Determination Based On A Ca               | lculated Mi        | ix                                      |
| 8.1.3.1.6                           | BV-1/2 Setpoint Determination Based On Anal               | ysis Prior T       | 'o Release                              |
| 8.1.3.2 Con                         | npliance With 10 CFR 20 Dose Rate Limits                  |                    |   |
| 8.1.3.2.1                           | Dose Rate Due To Noble Gases                              |                    |   |
| 8.1.3.2.2                           | Dose Rate Due To Radioiodines And Particulate             | es                 |   |
| 8.1.3.3 Con                         | npliance With 10 CFR 50 Dose Limits                       |                    |   |
| 8.1.3.3.1                           | Doses Due To Noble Gases                                  |                    |   |
| 8.1.3.3.2                           | Doses Due To Radioiodines And Particulates                |                    |   |
|                                     |   |                    |   |

| Be                          | aver Valley Power Station  | Procedure Num   | nber:<br>/2-ODC-1.01                     |
|-----------------------------|--|-----------------|--|
| Title:                      |  | Unit:<br>1/2    | Level Of Use:<br>General Skill Reference |
| ODCM: Index, N              | Matrix and History of ODCM Changes   | Revision:<br>16 | Page Number:<br>19 of 98                 |
| 8.1.3.4                     | Gaseous Radwaste Treatment System  |                 |  |
| 8.1.3.4.                    | 1 BV-1 Gaseous Radwaste Treatment System Co                                      | mponents        |  |
| 8.1.3.4.                    | 2 BV-2 Gaseous Radwaste Treatment System Co                                      | mponents        |  |
| 8.1.3.5                     | Site Boundary for Gaseous Effluents  |                 |  |
| 8.1.4 <u>1/2-0</u><br>(form | ODC-2.03, ODCM: <u>Radiological Environmental Moni</u><br>nerly; ODCM Section 3) | toring Prog     | <u>tram</u>                              |
| 8.1.4.1                     | Program Requirements   |                 |  |
| 8.1.5 <u>1/2-</u> (form     | DDC-2.04, ODCM: Information Related to 40 CFR 19<br>nerly; ODCM Section 4)       | <u>0</u>        |  |
| 8.1.5.1                     | Compliance with 40 CFR 190 Dose Limits   |                 |  |
| 8.1.5.2                     | Report Requirements  |                 |  |
| 8.1.5.3                     | Inside the Site Boundary Radiation Doses   |                 |  |
| 8.1.5.3.                    | 1 Gaseous Effluent Site Boundary   |                 |  |
| 8.1.6 <u>1/2-(</u> (form    | DDC-3.01, ODCM: Dispersion Calculational Procedur<br>nerly; ODCM Appendix A & B) | e and Source    | ce Term Inputs                           |
| 8.1.6.1                     | Dispersion and Deposition Parameters   | ·               |  |
| 8.1.6.2                     | BV-1 and 2 Release Conditions  |                 |  |
| 8.1.6.3                     | BV-1 Liquid Source Term Inputs   |                 |  |
| 8.1.6.4                     | BV-2 Liquid Source Term Inputs   |                 |  |
| 8.1.6.5                     | BV-1 Gaseous Source Term Inputs  |                 |  |
| 8.1.6.6                     | BV-2 Gaseous Source Term Inputs  |                 |  |
| 8.1.7 <u>1/2-0</u><br>(form | DDC-3.02, ODCM: Bases for ODCM Controls<br>nerly; ODCM Appendix D)               |                 |  |
| 8.1.7.1                     | Bases 3.3.3.1: Radiation Monitoring Instrumentation                              |                 |  |
| 8.1.7.2                     | Bases 3.3.3.9: Radioactive Liquid Effluent Monitorin                             | g Instrume      | ntation                                  |
| 8.1.7.3                     | Bases 3.3.3.10: Radioactive Gaseous Monitoring Inst                              | rumentatio      | n  |
| 8.1.7.4                     | Bases 3.11.1.1: Liquid Effluent Concentration                                    |                 |  |

| Be  | eaver Valley Power Station  | Procedure Num<br>1 | nber:<br>/2-ODC-1.01                     |
|---|---|--------------------|--|
| Title:  |   | Unit:<br>1/2       | Level Of Use:<br>General Skill Reference |
| ODCM: Index, Matrix and History of ODCM Changes |   | Revision:<br>16    | Page Number:<br>20 of 98                 |
| 8.1.7.5   | Bases 3.11.1.2: Liquid Effluent Dose  |                    |  |
| 8.1.7.6   | Bases 3.11.1.3: Liquid Radwaste Treatment System  |                    |  |
| 8.1.7.7   | Bases 3.11.1.4: Liquid Holdup Tanks   |                    |  |
| 8.1.7.8   | Bases 3.11.2.1: Gaseous Effluent Dose Rate  |                    |  |
| 8.1.7.9   | Bases 3.11.2.2: Dose- Noble Gases   |                    |  |
| 8.1.7.10  | Bases 3.11.2.3: Dose - Radioiodines, Radioactive Ma<br>and Radionuclides Other Than Noble Gases | aterial in Pa      | rticulate Form,                          |
| 8.1.7.11  | Bases 3.11.2.4: Gaseous Radwaste Treatment System   | n                  |  |
| 8.1.7.12  | Bases 3.11.2.5: Gas Storage Tanks   |                    |  |
| 8.1.7.13  | Bases 3.11.4.1: Total Dose  |                    |  |
| 8.1.7.14  | Bases 3.12.1: REMP Program Requirements   |                    |  |
| 8.1.7.15  | Bases 3.12.2: REMP - Land Use Census  |                    |  |
| 8.1.7.16  | Bases 3.12.3: REMP - Interlaboratory Comparison Pr  | rogram             |  |
| 8.1.8 <u>1/2-</u> (form                         | ODC-3.03, ODCM: Controls for RETS and REMP Pronerly; ODCM Appendix C)                           | <u>grams</u>       |  |
| 8.1.8.1   | Controls 3.0.1 thru 3.0.4: Applicability  |                    |  |
| 8.1.8.2   | Controls 4.0.1 thru 4.0.4: Surveillance Requirements  |                    |  |
| 8.1.8.3   | Control 3.3.3.1: Radiation Monitoring Instrumentation   | n                  |  |
| 8.1.8.4   | Control 3.3.3.9: Radioactive Liquid Effluent Monitor  | ing Instrum        | nentation                                |
| 8.1.8.5   | Control 3.3.3.10: Radioactive Gaseous Monitoring In   | strumentati        | ion                                      |
| 8.1.8.6   | Control 3.11.1.1: Liquid Effluent Concentration   |                    |  |
| 8.1.8.7   | Control 3.11.1.2: Liquid Effluent Dose  |                    |  |
| 8.1.8.8   | Control 3.11.1.3: Liquid Radwaste Treatment System  | I                  |  |
| 8.1.8.9   | Control 3.11.1.4: Liquid Holdup Tanks   |                    |  |
| 8.1.8.10  | Control 3.11.2.1: Gaseous Effluent Dose Rate  |                    |  |
| 8.1.8.11  | Control 3.11.2.2: Dose- Noble Gases   |                    |  |

| Bea  | aver Valley Power Station  | Procedure Num  | ber:<br>/2-ODC-1.01                                  |
|--|--|--|--|
| Title:   |  | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference             |
| ODCM: Index, Matrix and History of ODCM Changes           Revision:         Page Number           16         21                      |  | Page Number:<br>21 of 98                             |  |
| 8.1.8.12 Control 3.11.2.3: Dose - Radioiodines, Radioactive Material in Particulate Form<br>and Radionuclides Other Than Noble Gases |  | Particulate Form,                                    |  |
| 8.1.8.13   | Control 3.11.2.4: Gaseous Radwaste Treatment Syste   | em   |  |
| 8.1.8.14   | Control 3.11.2.5: Gas Storage Tanks  |  |  |
| 8.1.8.15   | Control 3.11.4.1: Total Dose   |  |  |
| 8.1.8.16   | Control 3.12.1: REMP Program Requirements  |  |  |
| 8.1.8.17   | Control 3.12.2: REMP - Land Use Census   |  |  |
| 8.1.8.18   | Control 3.12.3: REMP - Interlaboratory Comparison  | Program  |  |
| 8.1.8.19   | Control 6.9.2: Annual REMP Report  |  |  |
| 8.1.8.20   | Control 6.9.3: Annual RETS Report  |  |  |
| 8.2 <u>History Ot</u>  | f ODCM Changes   |  |  |
| 8.2.1 <u>Chang</u>   | ge (1) of BV-1 ODCM (Issue 1), Effective January, 19   | <u>84</u>  |  |
| 8.2.1.1  | This is the initial issue of the BV-1 ODCM, as prepare<br>Radiological Effluent Technical Specifications (RETS<br>manual was commensurate with Amendment No. 66 t<br>Specifications as approved by the NRC on March 28, 19 | ed for imple<br>5). Implement<br>o the Unit 1<br>83. | ementation of the<br>entation of this<br>I Technical |
| 8.2.2 <u>Chang</u>   | ge (2) of BV-1 ODCM (Issue 1, Rev 1), Effective Octo   | <u>ber, 1984</u>                                     |  |
| 8.2.2.1  | A description of the changes implemented with this re  | vision are a   | as follows:  |
| 8.2.2.1.1  | Section 1.0: Table 1.3-1 was revised to include I nuclides presently identified at BVPS and not in   | iquid dose<br>cluded in tl                           | factors for<br>he original table.                    |
| 8.2.2.1.2  | <u>Section 2.0</u> : Equations 2.1-19 and 2.1-22 were re<br>Meeting No. BVPS-RSC-1-84 on January 31, 19<br>revised to clarify flow rate terminology.   | evised as ag<br>984. The ea                          | pproved at RSC<br>quations were                      |
| 8.2.2.1.3  | <u>Section 2.0</u> : Section 2.2.2 was revised to delete to pathways for gaseous dose rate calculations of I-radionuclides in particulate form with half lives   | the food and<br>131, tritiur<br>greater than         | d ground<br>n, and<br>n 8 days.                      |
| 8.2.2.1.4  | <u>Section 2.0</u> : Table 2.2-13 was revised to include<br>the maximum organ. Also, the receptor was cha<br>and addition/deletion of nuclides to be consisten<br>Specifications and nuclides identified at BV-1.          | 7 organs ra<br>nged from<br>t with the T             | ather than only<br>infant to child,<br>Fechnical     |

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| Beaver   | r Valley Power Station   | Procedure Num   | nber:<br>/2-ODC-1.01  |
|--|--|---|---|
| Title:   |  | Unit:   | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matrix  | and History of ODCM Changes  | Revision:<br>16   | Page Number:<br>22 of 98  |
| 8.2.3 <u>Change (3</u>   | 8.2.3 Change (3) of BV-1 ODCM (Issue 1, Rev 2), Effective July, 1986   |   |   |
| 8.2.3.1 A description of the changes that were implemented with this revision are as follows:  |  |   |   |
| 8.2.3.1.1 Section 1.0: Provide a flow based monitor setpoint adjustment factor in Section 1.1.2. This change makes Section 1.1.2 consistent with Section 1.1.1 and current procedures.   |  |   | nent factor in<br>with  |
| 8.2.3.1.2 Section 1.0 and 2.0: Revise the 31-day dose projection limits and<br>methodology in Sections 1.3.2, 2.3.1.2, and 2.3.2.2. This change corrected<br>the 31-day dose projection limits and changed the dose projection<br>methodology to be consistent with proposed software.   |  |   | its and<br>change corrected<br>ojection   |
| 8.2.3.1.3 <u>Section 2.0</u> : Revise the Gaseous Effluent Monitor Setpoints in Sections 2.1.1<br>and 2.1.2. They were revised due to pressure corrections determined for the<br>detectors, changes in isotopic literature, and the addition of SPING<br>Channel 5 alternate monitor data. The calculations supporting this item are<br>contained in Calculation Packages ERS-SFL-85-031 and ERS-ATL-86-008. |  |   | s in Sections 2.1.1<br>letermined for the<br>f SPING<br>ting this item are<br>CRS-ATL-86-008. |
| 8.2.4 <u>Change (4</u><br><u>1987</u>  | ) of BV-1 ODCM (Issue 2), and BV-2 ODCM (Is  | sue 1, Rev  | 1), Effective July,   |
| 8.2.4.1 With the start-up of BV-2 in the second half of 1987, the BV-1 ODCM required revision and the BV-2 ODCM required initial implementation. A description of the changes are as follows:  |  |   | DCM required<br>A description of  |
| 8.2.4.1.1  | Produce functionally compatible BV-1 and BV-<br>site dose rate limits and meet regulatory requires<br>scope of the revisions to the Unit 1 ODCM, it w<br>Also, for clarity, the draft BV-2 ODCM previou<br>was regarded as Issue 1 (historical) and operation<br>Issue 1, Revision 1 of the BV-2 ODCM. | 2 ODCMs<br>ments. Not<br>vas re-issued<br>sly submitt<br>on of BV-2 | which address<br>te that due to the<br>d as Issue 2.<br>ted to the NRC<br>began with          |
| 8.2.4.1.2  | Section 1.0: A shared liquid radwaste system, per processing, the sharing of dilution water, and the according to NUREG-0133 was incorporated in   | ermitting m<br>e apportion<br>to both OD                            | ixing of waste for<br>ment of dose<br>CMs.  |
| . 8.2.4.1.3  | Section 2.0: A shared <u>elevated</u> gaseous radwaster<br>mixing of gaseous radwaster and the apportion of<br>NUREG-0133 was incorporated into both ODC   | e system, pe<br>ent of dose,<br>Ms.                                 | ermitting the<br>, according to   |
| 8.2.4.1.4  | Section 2.0: Separate ground level gaseous relea<br>BV-1 ODCM was updated to incorporate the BV<br>base. Gaseous source terms were revised to that<br>BV-2 FSAR, and terms were added for calculati<br>release.  | uses were m<br>V-2 five yea<br>t calculated<br>on of a turb         | aintained. The<br>ar meteorology<br>for BV-1 in the<br>pine building                          |

| Beaver  | Valley Power Station   | Procedure Num  | nber:<br>/2-ODC-1.01  |
|---|--|--|---|
| Title:  |  | Unit:  | Level Of Use:   |
| ODCM: Index, Matrix                           | and History of ODCM Changes  | 1/2<br>Revision:<br>16   | Page Number:<br>23 of 98  |
| 8.2.4.1.5                                     | <u>Section 2.0</u> : The gaseous effluent monitor alarm<br>were revised as required by revisions to meteor<br>efficiencies, and revised percentages of site dos  | n setpoints<br>ology, sour<br>e rate limit                                       | of both ODCMs<br>rce terms, monitor<br>s.   |
| 8.2.4.1.6                                     | 1.6 Section 2.0: Formal justification was provided for use of the "T" factor as described in the Containment Purge Dose Rate calculations. Whereas, the dose rate for a Containment Purge may be averaged over a time period not to exceed 960 minutes. Since the Containment air volume change time period is 60 minutes, then the maximum value for "T" is 16 (i.e., 960 minutes/60 minutes = 16). |  |   |
| 8.2.5 <u>Change (5)</u><br><u>Effective D</u> | of BV-1 ODCM (Issue 2, Rev 1), and BV-2 OD<br>December, 1987   | CM (Issue  | 1, Revision 2),   |
| 8.2.5.1 <u>Secti</u> note<br>titled<br>(TAC   | on 2.0: Sections 2.1.3 and 2.1.4 of both ODCMs concerning noble gas nuclides as requested by a Beaver Valley Unit 2 - Offsite Dose Calculation C 63996).   | were chang<br>NRC letter<br>Manual, C  | ged to delete a<br>dated July 14, 1987<br>DDCM                                    |
| 8.2.6 <u>Change (6)</u><br>Effective J        | of BV-1 ODCM (Issue 2, Rev 2), and BV-2 OD<br>une, 1989  | CM (Issue  | <u>1, Rev 3),</u>   |
| 8.2.6.1 A des                                 | scription of the changes implemented with this re  | evision are  | as follows:   |
| 8.2.6.1.1                                     | Section 1.0 and 2.0: Both ODCMs were revised<br>and 2.4. This addition gives a description of an<br>the Liquid Radwaste System and the Gaseous R<br>justification 1)   | for additio<br>d includes f<br>adwaste Sy  | n of Sections 1.4<br>flow diagrams of<br>/stem. (See                              |
| 8.2.6.1.2                                     | Section 1.0: Corrected typos to BV-1 ODCM Edifferentiation between the two f's, and add the Justification 1)   | quation 1.1<br>division sig  | -8 to show<br>m. (See   |
| 8.2.6.1.3                                     | Section 1.0: Re-define $F_k$ in equation 1.3-1 of be the NRC. (See Justification 1)  | oth ODCM   | s, as allowed by  |
| 8.2.6.1.4                                     | Section 1.0 and 2.0: Typos were corrected to the ODCM equation 1.3-7; add a division sign betw ODCM equation 1.3-8; add a division sign betw Equation 2.1-20 of both ODCMs; change the HI 0.70 to 0.33. (4) Equation 2.1-24 of both ODC HSP multiplier from 0.70 to 0.33. (See Justification 2.1-24 of both ODC).  | e following<br>een the bra<br>een the bra<br>HSP to HSI<br>Ms, change<br>tion 1) | : (1) BV-1<br>ackets. (2) BV-1<br>ackets. (3)<br>P multiplier from<br>the HHSP to |
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| Beave               | er Valley Power Station  | Procedure Num<br>1  | nber:<br>/2-ODC-1.01  |
|---------------------|--|---|---|
| Title:              |  | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matrix | x and History of ODCM Changes  | Revision:   | Page Number:<br>24 of 98  |
| 8.2.6.1.5           | Section 1.0 and 2.0: Typos were also corrected<br>words "from each reactor unit" to five places (S<br>2.3.1.2, and 2.3.2.2) of both ODCMs. This ens<br>current requirements of the Technical Specifica<br>punctuation in Section 2.3.2.1 of the BV-1 ODC<br>Table 3.0-1 of both ODCMs. (4) Correct typo<br>ODCMs.  | as follows:<br>Sections 1.3<br>ures compli-<br>tions. (2)<br>CM. (3) C<br>s in Figure                                 | (1) Add the<br>3.1, 1.3.2, 2.3.1.1,<br>iance with the<br>Correct<br>orrect typos in<br>3.0-3 of both  |
| 8.2.6.1.6           | Section 2.0: Add a Reference to Section 2 of the BV-1 ODCM. (See Justification 3)  |   | CM. (See  |
| 8.2.6.1.7           | <u>Section 2.0</u> : Add the words "from the site" to Section 2.0: Add the words "from the site" to Sectifications compliance with the current requires Specifications. (See Justification 2)  | ection 2.2.2<br>rements of t  | e of both ODCMs.<br>The Technical   |
| 8.2.6.1.8           | Section 2.0: Revise BV-1 ODCM Table 2.2-2 to change the particulate and iodine radionuclide mix for the Unit 1 Ventilation Vent and to correct a typo for Xe-135m in the Containment Vacuum Pumps. (See Justification 3)   |   | e particulate and<br>d to correct a typo<br>stification 3)  |
| 8.2.6.1.9           | Section 2.0: Provide re-verified $P_{i\tau}$ values for th 2.2-13 of both ODCMs. (See Justification 1)   | e Beaver V  | alley site in Table   |
| 8.2.6.1.10          | Section 2.0: Correct the definition for the $t_f$ value in Section 2.3.2.1 of both ODCMs. (See Justified   | ue in the co<br>cation 1)   | w-meat pathway  |
| 8.2.6.1.11          | Section 2.0: Provide re-verified R values for the 2.3-2 through 2.3-20 of both ODCMs. (See Jus   | Beaver Vatification 1   | alley site in Tables<br>)   |
| 8.2.6.1.12          | Appendix B: Change the particulate and iodine B of the BV-1 ODCM. (See Justification 3)  | release frac  | ctions in Appendix  |
| 8.2.6.2 The         | justification used for Change (6) to the ODCMs a   | re as follow  | vs:   |
| 8.2.6.2.1           | A letter dated March 2, 1989 (from the NRC) w<br>Light regarding acceptance of the Offsite Dose of<br>NRC acceptance of the BV-1 and BV-2 ODCM<br>Evaluation Reports (TER No. EGG-PHY-8194<br>provided by the Idaho National Engineering Lab   | as received<br>Calculation<br>s was basec<br>and EGG-P<br>poratory.   | by Duquesne<br>Manuals. The<br>d on Technical<br>PHY-8217)  |
|                     | As stated in the letter, minor concerns are delined<br>In general, these concerns are considered typos of<br>impact any of the calculations currently being per<br>contributions. However, one of these concerns is<br>reproduce the ODCM R values for the cow-meat<br>pathways when using the ODCM/NUREG-0133<br>(along with all other ODCM R values) were re-ver<br>Package No. ERS-ATL-89-014. The results of the | eated in Sec<br>or additions<br>erformed fo<br>is regarding<br>t, cow-milk<br>methodolo<br>validated V<br>chis packag | etion 4 of the TER.<br>s and in one way<br>or dose<br>g the inability to<br>c and goat-milk<br>ogy. These R values<br>IA Calculation<br>e showed that the R |

| Beaver Valley Power Station |   | Procedure Num  | ber:<br>/2-ODC-1.01   |
|-----------------------------|---|--|---|
| Title:                      |   | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matrix         | and History of ODCM Changes   | Revision:<br>16  | Page Number:<br>25 of 98  |
|                             | values for the three aforementioned pathways we<br>values in error do not involve the controlling re<br>the controlling receptor is VIA the Inhalation, C<br>pathways, not the pathways subject to error), <u>Th</u><br>adversely impact the accuracy or reliability of e   | vere in error<br>ceptor for <u>g</u><br>Ground, and<br><u>HEN</u> the ch<br>ffluent dose   | r. <u>SINCE</u> the R<br>gaseous release (i.e.;<br>I Vegetation<br>anges will not<br>e calculations.  |
| 8.2.6.2.2                   | As requested by DLC letters ND3NSM:3431, N<br>ND1NSM:3652, Technical Specifications were<br>plant implementing procedures. As part of this<br>were identified in various sections of the ODCM<br>anomalies identified during the verification effor   | D1NSM:3<br>required to<br>effort, word<br>1. This rev<br>ort.  | 522, and<br>be verified in all<br>ding errors/typos<br>ision corrects the   |
| 8.2.6.2.3                   | As delineated in letter ND1SHP:776, dated Feb.<br>ODCM Table 2.2-2, Appendix B) a series of ap-<br>identified between ODCM Table 2.2-2 and simil<br>FSAR. Evaluation showed that apparent credit<br>filtration of SLCRS releases which is invalid at<br>calculation package on which the BVPS-2 FSA<br>based, is correct (i.e.; no credit was taken for ro-<br>releases). Except for revising the ODCM, no fu-<br>necessary because the particulates and iodines in<br>for gaseous effluent alarm setpoint. Therefore,<br>adversely impact the accuracy or reliability of set | ruary 12, 19<br>parent discr<br>lar tables o<br>was given f<br>Unit 1. Ho<br>R expected<br>utine filtrat<br>rther correct<br>the ODCP<br>this change<br>etpoint calc | 988 (BVPS-1<br>repancies were<br>f the BVPS-2<br>for continuous<br>owever, the<br>release tables are<br>ion for Unit 1<br>ctive action is<br>M were not used<br>does not<br>ulations. |
| 8.2.7 <u>Change (7</u>      | ) of BV-1 and 2 ODCM (Issue 3), Effective Augu  | <u>st, 1995</u>  |   |
| 8.2.7.1 The<br>8.2.7.1.1    | combined ODCM contains the following changes<br>Prior to ISSUE 3, BV-1 and BV-2 had individua<br>generically equal. In an effort to simplify the in<br>ODCMs have been combined. This merger of the<br>maintain the level of radioactive effluent control<br>20.1302, 40 CFR Part 190, 10 CFR 50.36a, and<br>Part 50. Also, this merger will not adversely im<br>reliability of effluent, dose, or setpoint calculation   | al ODCMs<br>aplementing<br>the individu<br>required b<br>Appendix I<br>pact the accord   | that were<br>g documents, the<br>al ODCMs will<br>by 10 CFR<br>I to 10 CFR<br>curacy or   |
| 8.2.7.1.2                   | Section 1.0: Revised Section 1.0 (Liquid Efflue<br>with 10 CFR 20 Appendix B (20.1001 - 20.2401<br>includes the following: (1) Revising the alarm s<br>[RM-1LW-104, RM-1LW-116, and 2SGC-RQ1<br>monitor detection efficiencies. (3) Updating dis<br>parameters for BV-1 and BV-2. (4) Adding the<br>[RM-1RW-100, RM-1DA-100, 2SWS-RQ101, a  | nts) to show<br>), Table 2,<br>etpoints for<br>00]. (2) U<br>scharge rate<br>alarm setp<br>and 2SWS-   | w compliance<br>Col. 2 EC's. This<br>r monitors<br>pdating the BV-1<br>e and dilution rate<br>oints for monitors<br>RQ102].   |

|        | Beaver       | Valley Power Station  | Procedure Num  | nber:<br>/2-ODC-1.01   |
|--------|--------------|---|--|--|
| Title: |              |   | Unit:  | Level Of Use:  |
| ODCM   | Index Matrix | and History of ODCM Changes   | 1/2<br>Revision:   | Page Number:   |
|        |              |   | 16   | 26 of 98   |
|        | 8.2.7.1.3    | Section 1.0: Revised Section 1.0 (Liquid Efflue<br>(Gaseous Effluents) to merge the BV-1 alarm se<br>BV-2 alarm setpoint calculations. For all practi-<br>Figures, and Equations were transferred to the or<br>numbering was kept generically equal. The two<br>follows: (1) If a table was contained in both O<br>specific to BV-1 or BV-2, then an a or b was ad<br>example, Table 1.1-1 was previously included i<br>BV-2 ODCM. These tables are now numbered<br>BV-1 and BV-2 respectively. A cross reference<br>provided in the Table Of Contents. (2) If an eq<br>ODCMs, but each had data specific to BV-1 or<br>added to the equation. For example, Equation 1<br>in the BV-1 ODCM and the BV-2 ODCM. The<br>numbered 1.1(1)-1 and 1.1(2)-1, denoting BV-1<br>cross reference for ODCM equations is provide | ents) and Se<br>etpoint calc<br>ical purpose<br>combined C<br>o exception<br>DCMs, but<br>Ided to the f<br>n the BV-1<br>1.1-1a and<br>e for ODCM<br>uation was<br>BV-2, then<br>1.1-1 was pre-<br>se equation<br>and BV-2<br>d in the Tal | ection 2.0<br>culations with the<br>es, when Tables,<br>DDCM, the<br>s to this are as<br>each had data<br>table. For<br>ODCM and the<br>1.1-1b denoting<br>A tables is<br>contained in both<br>a (1) or (2) was<br>reviously included<br>as are now<br>respectively. A<br>ble Of Contents. |
|        | 8.2.7.1.4    | <u>Section 3.0</u> : Revised Section 3.0 (Radiological<br>Program) to list the program requirements from<br>Branch Technical Position (Revision 1, 1979).   | Environme<br>the Radiol  | ental Monitoring<br>ogical Assessment  |
|        | 8.2.7.1.5    | Section 4.0: Revised Section 4.0 (Information I<br>provide clarified reporting requirements for the<br>clarifications were taken from Generic Letter 89<br>(NUREG-1301).  | Related To<br>Special Re<br>9-01, Suppl  | 40 CFR 190) to<br>port. The<br>ement No. 1   |
|        | 8.2.7.1.6    | <u>Appendix A</u> : Revised Appendix A to transfer the parameters from Appendix A (Tables A-2 throug) (Tables 2.3-35 through 2.3-38). This revision we For example, all dispersion parameters are now ODCM.   | he Batch Re<br>gh A-5) to<br>vas done for<br>included in   | elease dispersion<br>Section 2.3<br>r clarification.<br>n one area of the  |
|        | 8.2.7.1.7    | Appendix C: This is a new Appendix to the OD<br>the Radiological Effluent Technical Specification<br>from the Technical Specifications to Appendix of<br>Letter 89-01 and Generic Letter 89-01, Supplem<br>This Appendix also includes selected Definition<br>the Technical Specifications (Section 1) and sele<br>Surveillance Requirement statements as delinear<br>Specifications (Section 3/4). These were added<br>purposes, even though they are currently describ<br>Specification.  | OCM. Proce<br>ons (RETS)<br>C of the OE<br>ent No. 1 (<br>is and Table<br>ected Appli<br>ted in the T<br>to Appendi<br>oed in the T  | edural details for<br>were transferred<br>DCM per Generic<br>NUREG 1301).<br>es as delineated in<br>icability and<br>echnical<br>ix C for reference<br>echnical  |
|        | 8.2.7.1.8    | <u>Appendix D</u> : This is a new Appendix to the OD<br>Controls were transferred from the Bases Sectio<br>Specifications to Appendix D of the ODCM per   | OCM. The l<br>n of the Teo<br>Generic Le   | bases for ODCM<br>chnical<br>etter 89-01.  |

| Beaver Valley Power Station |                 | Procedure Number:<br>1/2-ODC-1.01  |  |   |
|-----------------------------|-----------------|--|--|---|
| Title:                      | <u></u>         |  | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference  |
| ODCM:                       | Index, Matrix a | and History of ODCM Changes  | Revision:<br>16  | Page Number:<br>27 of 98  |
|                             | 8.2.7.1.9       | 1.9 <u>Appendix E</u> : This is a new Appendix to the ODCM. The Annual<br>Radioactive Effluent Release Report and the Annual Radiological<br>Environmental Report reporting requirements are listed in this appendix to<br>the ODCM.   |  |   |
|                             | 8.2.7.1.10      | There are three differences (i.e., non-editorial changes) in this ODCM revision when compared to the previous BV-1 and BV-2 Technical Specifications. These are the only changes that are identified by revision bars. These differences are as follows:   |  | this ODCM<br>echnical<br>ied by revision  |
|                             | 8.2.7.1.10.1    | First Difference - LLD Definition Clarific<br>(1) There was a sentence removed in the<br>Definitions delineated in Appendix C Tab<br>sentence stated: "In calculating the LLD<br>by gamma ray spectrometry, the backgrou<br>contributions of other radionuclides norm<br>(e.g., potassium in milk samples)." (2) Th<br>justification of NUREG-0472, Rev. 2 (i.e.<br>removed the sentence from Tables 4.11-1<br>there are <u>no</u> other radionuclides normally<br>However, there is applicability to environ<br>to the existence of other radionuclides in or<br>sentence, therefore, will not be removed ff<br>Table 4.12-1. (3) Removal of the sentence<br>Tables 4.11-1 and 4.11-2 does not adverse<br>reliability of current or past effluent LLD<br>maintains the level of radioactive effluent<br>10 CFR 20.1302, 40 CFR Part 190, 10 CF<br>10 CFR Part 50, and does not adversely in<br>reliability of effluent, dose, or setpoint cal<br>brings ODCM Appendix C, Tables 4.11-1<br>agreement with NRC guidance (i.e., NUR<br>standard. | cation is des<br>LLD Stand<br>oles 4.11-1<br>for a radior<br>and shall in<br>ally presen<br>ins sentence<br>, this revisi<br>and 4.11-2<br>present in a<br>mental LLI<br>environmer<br>rom Appen<br>ce from App<br>ely impact to<br>calculation<br>control reo<br>FR 50.36a, a<br>npact the ac<br>culations.<br>and 4.11-2<br>EG-0472) a | scribed as follows:<br>ard Deviation<br>and 4.11-2. This<br>nuclide determined<br>clude the typical<br>t in the samples<br>was removed by<br>ion to the NUREG<br>). At BV-1 and 2,<br>effluent samples.<br>D calculations due<br>ttal samples. This<br>dix C,<br>pendix C,<br>he accuracy or<br>s. This change<br>juired by<br>and Appendix I to<br>ccuracy or<br>(4) This change<br>2 in generic<br>and industry |

| Beaver V                | alley Power Station  | Procedure Nur<br>1  | nber:<br>/2-ODC-1.01   |
|-------------------------|--|---|--|
| Title:                  |  | Unit:   | Level Of Use:<br>General Skill Reference   |
| ODCM: Index, Matrix and | History of ODCM Changes  | Revision:   | Page Number:   |
|                         |  | 16  | 28 of 98   |
| 8.2.7.1.10.2            | <ul> <li>Second Difference - Change From Semi-Report as follows: (1) The frequency of Release Report was changed from Semi-change is justified by Federal Register, R (Vol. 57, No. 169, Monday, August 31, 1 Part 50.36a(a)(2) states, in part. "Each little the Commission annually that specifies the principal radionuclides released to unrest gaseous effluents during the previous 12 between submission of the reports must be 12 months" (2) This change maintains effluent control required by 10 CFR 20.11 10 CFR 50.36a, and Appendix I to 10 CFR adversely impact the accuracy or reliabilities setpoint calculations.</li> </ul>   | Annual Rej<br>the Radioad<br>Annual to A<br>ules And R<br>992), wher<br>censee shal<br>he quantity<br>ricted areas<br>months of o<br>the level o<br>302, 40 CF<br>R Part 50, 5<br>ty of efflue  | port To Annual<br>ctive Effluent<br>Annual. This<br>degulations<br>e as; 10 CFR<br>l submit a report to<br>of each of the<br>s in liquid and in<br>operationthe time<br>r than<br>f radioactive<br>R Part 190,<br>and does not<br>ent, dose, or  |
| 8.2.7.1.10.3            | Third Difference - Implementation Of Netfollows: (1) The definition for MEMBE revised to agree with the definition in 10 definition for UNRESTRICTED AREA with the ODCM. This modification was netfored to the ODCM. This modification was netfored to the ODCM. This modification was netfored adding the following release dose calculations, the UNRESTRICTED exclude any public road, railway, or wate the site that is not occupied continuously PUBLIC". (3) The limits for liquid effluents and the ODCM Effluent Concentration Limit effluents, no changes were made to imple As justification, when the utility adopted compliance to 10 CFR 20 shifted from the Unrestricted Area Dose Rate concept. The preferred method of controlling gaseous experiments. (6) For information, the gase Part 20 is that radiation doses to members 100 mrems per year, which is more restrict year limit in the Old Part 20, and that fuel with 40 CFR 190. The New Part 20 does limiting radioactivity concentrations in efficient and the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentration in the preference of the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20, (7) The limiting radioactivity concentrations in efficients in the Old Part 20. (7) The limiting radioactivity concentrations in efficients in the O | w 10 CFR<br>R(S) OF TI<br>CFR 20.10<br>vas modifie<br>fications pro-<br>cessary to e<br>s not affect<br>ing sentence<br>(CTED AR<br>rway adjac<br>by MEMB)<br>ent concern<br>lix B (20.1<br>appendix B<br>t will now l<br>(OEC). (4)<br>ment the N<br>the RETS (<br>e Dose Rat<br>ffluent rele<br>EC concep-<br>nmodates r<br>the New 10<br>eneral inten<br>of the pub-<br>ctive than th<br>cycle licer<br>not include<br>fluents, wh | 20 is described as<br>HE PUBLIC was<br>03. (2) The<br>ed from the<br>fror to transferring<br>ensure that the<br>ted. The<br>e: "For gaseous<br>EA should<br>ent to or crossing<br>ER(S) OF THE<br>tration were<br>- 20.601), Table<br>(20.1001 -<br>be referred to as<br>) For gaseous<br>ew 10 CFR 20.<br>1/1/84),<br>cept to the<br>te concept is the<br>ease rate, and will<br>ot. (5) Changing<br>needed operational<br>0 CFR 20<br>tt of the New<br>lic not exceed<br>he 500 mrems per<br>issees also comply<br>e a requirement on<br>ich is less<br>rements for RETS |

| Beaver Valley Power Station                     |                 | Procedure Number:<br>1/2-ODC-1.01        |  |
|---|-----------------|--|--|
| Title:  | Unit:<br>1/2    | Level Of Use:<br>General Skill Reference |  |
| ODCM: Index, Matrix and History of ODCM Changes | Revision:<br>16 | Page Number:<br>29 of 98                 |  |

(i.e.; ODCM Appendix C Controls) are stated in 10 CFR 50.36a. These requirements indicate that compliance with the RETS will keep average annual releases of radioactive material in effluents to small percentages of the limits specified in the 10 CFR 20.106 (10 CFR 20.1302). These requirements also indicate that operational flexibility is allowed (with considerations for public health and safety) which may temporarily result in releases higher than such small percentages, but still within the MPC limits specified in the 10 CFR 20.106. The MPC's relate to an annual dose of 500 mrem. Also, 10 CFR 50.36a indicates that when using operational flexibility, best efforts shall be exerted to keep levels of radioactive materials in effluents to ALARA as set forth in 10 CFR 50 Appendix I. (8) As stated in the Introduction to Appendix B of the New 10 CFR 20, the liquid EC's are based on an annual dose of 50 mrem. Since a release concentration corresponding to a limiting dose rate of 500 mrem/year has been acceptable as a RETS limit for liquid effluents, it should not be necessary to reduce this limit by a factor of ten. (9) BV-1 and BV-2 has demonstrated that the use of the MPC's associated with the 10 CFR 20.106 has resulted in calculated maximum individual doses to a member of the public that are small percentages of the limits of 10 CFR 50 Appendix I. Therefore, the use of the OEC's, which correspond to an annual dose of 500 mrem (i.e.; 10 times the 10 CFR 20 EC's) should not have a negative impact on the ability to continue to operate within the limits of 10 CFR 50 Appendix I, and 40 CFR 190. (10) Operational flexibility is also necessary in establishing a basis for effluent monitor setpoint calculations. As previously discussed, the EC's stated in 10 CFR 20 relate to a dose of 50 mrem in a year. This is too restrictive to base effluent monitor setpoint calculations. For many liquid effluent release situations, the monitor background is high, which could result in a monitor setpoint that is approximately equal to the monitor background. (11) In summary, to accommodate operational flexibility needed for effluent releases, the limits associated with the liquid release concentration (i.e.; the OEC) are based on 10 times the EC's stated in the 10 CFR 20. The multiplier of 10 is used because the annual dose of 500 mrem (10 CFR 20 MPC bases) is a factor of 10 higher than the annual dose of 50 mrem (10 CFR 20 EC bases). Compliance with the 100 mrem dose limit of the 10 CFR 20.1302 will be demonstrated by operating within the dose limits of 10 CFR 50 Appendix I, and 40 CFR 190 (which are also ODCM Controls for liquid and gaseous effluents). Implementation of the 10 CFR 20 for liquid effluents maintains the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50, and does not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.

| Beaver Valley Power Station   |  | Procedure Nu                | mber:<br>/2-ODC-1.01  |
|---|--|-----------------------------|---|
| Title:  |  | Unit:                       | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Mat  | rix and History of ODCM Changes  | 172<br>Revision:<br>16      | Page Number:<br>30 of 98  |
| 8.2.7.2 In summary, Per Generic Letter 89-01, the transfer of RETS procedural details fulfills the goal of the USNRC Policy Statement for Technical Specification improvements. It is not the USNRC's (or DLC's) intent to reduce the level of radioactive effluent control. Rather, the intent is to provide programmatic control for RETS (as delineated in Technical Specification 6.8.6) and allow for relocation of the procedural details of the RETS to the ODCM.  |  |                             | ocedural details<br>Specification<br>ce the level of<br>grammatic controls<br>llow for relocation |
| 8.2.8 <u>Change</u>   | (8) of BV-1 and 2 ODCM (Issue 3, Rev 1), Effective   | ve October                  | , 1995  |
| 8.2.8.1 A   | description of the changes implemented with this re-   | evision are                 | as follows:   |
| 8.2.8.1.1   | Index: Editorial changes were made for clarity   | . (See just                 | ification 1)  |
| 8.2.8.1.2   | <u>Section 1.0</u> : Revised Nb-95 and Nb-97 dose fa changing the niobium bioaccumulation factor.  | ctors in Ta<br>(see justifi | ble 1.3-1 due to cation 2)  |
| 8.2.8.1.3   | <u>Appendix A</u> : A change was made to Table 1.1 s proceed the table number. (See justification 1)   | so that the                 | letter A would  |
| 8.2.8.1.4   | <u>Appendix B</u> : A descriptive paragraph was added at the front of this<br>Appendix. Also, changes were made to the tables so that the letter B would<br>proceed the table numbers. (See justification 1) |                             |   |
| 8.2.8.1.5 <u>Appendix C</u> : Descriptive paragraphs were added at the front of the Appendix (See justification 1). Removed the process flow rate operability and surveillance requirements for gaseous effluent radiation monitors [2RMQ-RQ301, 2RMQ-RQ303 and 2HVL-RQ112] from Tables 3.3-13 and 4.3-13 (See justification 3). Added alternate system effluent flow rate measuring devices for the three gaseous effluent pathways to Tables 3.3-13 and 4.3-13 (See justification 4). Revised Surveillance Requirements 4.11.1.1.3 and 4.11.1.1.4 and notes e and g of Table 4.11-1 to clarify Turbine Building sump sampling requirements (See justification 5). |  |                             |   |
| 8.2.8.1.6   | <u>Appendix D</u> : Descriptive paragraphs were adde Appendix. (See justification 1)   | d at the fro                | ont of the  |
| 8.2.8.1.7   | <u>Appendix E</u> : Descriptive paragraphs were added<br>Appendix. (See justification 1)   | d at the fro                | nt of the   |
| 8.2.8.1.8 <u>Appendix F</u> : This is a new Appendix to the ODCM. It contains plant<br>procedure references for Radiological Effluent Technical Specification<br>(RETS) that were transferred from the Technical Specification Procedure<br>Matrix. (See justification 1)   |  |                             | ntains plant<br>Specification<br>Ition Procedure  |
|   |  |                             |   |

| Beaver Valley Power Station  |  | Procedure Nun<br>1   | nber:<br>/2-ODC-1.01   |  |
|--|--|--|--|--|
| Title:   |  | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference   |  |
| ODCM: Index, Matrix  | and History of ODCM Changes  | Revision:<br>16  | Page Number:<br>31 of 98   |  |
| 8.2.8.2 The  | 8.2.8.2 The justification used for change (8) to the ODCM are as follows:  |  |  |  |
| 8.2.8.2.1 These changes are considered editorial in nature. Therefore, these editorial changes will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. Also the editorial changes will not adversely impact the accuracy or reliability of effluent dose or setpoint calculation.   |  |  | re, these editorial<br>trol required by<br>ppendix I to<br>impact the<br>ion.  |  |
| 8.2.8.2.2  | This change resulted from revising the bioaccur<br>niobium from the value posted in Table A-1 of<br>Revision 1, 1977 (30,000 pCi/kg per pCi/l). Si<br>BF (as documented and justified in Appendix A<br>No. ERS-ATL-83-027) merely removes the cor<br>organism uptake, then the change will maintain<br>effluent control required by 10 CFR 20.1302, 4<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>conservatism will not adversely impact the accu<br>dose or setpoint calculation. | mulation fa<br>Regulatory<br>nce this cha<br>to Calcula<br>servatism a<br>the level o<br>0 CFR Part<br>Also, remo<br>tracy or reli   | ctor (BF) for<br>Guide 1.109,<br>ange in niobium<br>ation Package<br>associated with<br>f radioactive<br>190,<br>oving the<br>iability of effluent |  |
| <ul> <li>8.2.8.2.3 This change removes the process flow rate operability and surveillance requirements for BV-2 Gaseous Effluent Radiation Monitors [2RMQ-RQ301, 2RMQ-RQ303 and 2HVL-RQ112] from Appendix C Tables 3.3-13 and 4.3-13. These items were removed from the ODCM by justification provided in Calculation Package No. ERS-ATL-90-021. A safety analysis and a no significant hazards evaluation were prepared and approved prior to submitted it to the NRC via TSCR No. 2A-61 in 1992. However, it was withdrawn in 1993 in an effort to alleviate any further delays associated with approval of TSCR No. 1A-175/2A-37 (Generic Letter 89-01 implementation). Removal of these requirements from the ODCM will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a and Appendix I to 10 CFR 50. Also removal of these items will not adversely impact the accuracy or reliability of effluent dose or setpoint calculation. The following is a summary of the justification. (1) BVPS-1 and BVPS-2 is currently using, and will continue to use design (maximum) system flow rates observed during normal plant operation. (2) BVPS-2 UFSAR Section 11.3.3 indicates that the source term for these three pathways are not significant. These pathways are not included in UFSAR Tables 11.3-1 through 11.3-4 that list the expected and design releases for each potentially radioactive pathway. (3) The DLC commitment to Regulatory Guide 1.97, Rev. 2 (Section 1.8-1 of the BVPS-2 UFSAR) is not affected. This RG applies to instrumentation used during and after postulated accident conditions. These three process flow rate instruments were not used in any accident analysis, nor are they used to assess plant conditions during and following an accident. (4) The DLC commitment to Regulatory Guide 1.21, Rev. 1 (Section 1.8-1 of the BVPS-2 UFSAR) is not affected. RG 1.21,</li> </ul> |  | surveillance<br>ors<br>Appendix C<br>in the ODCM by<br>'L-90-021. A<br>e prepared and<br>A-61 in 1992.<br>e any further<br>37 (Generic<br>ents from the<br>rol required by<br>opendix I to<br>y impact the<br>on. The following<br>2 is currently<br>flow rates in<br>flow rates<br>GAR<br>e pathways are not<br>ables 11.3-1<br>r each potentially<br>atory Guide 1.97,<br>ed. This RG<br>accident<br>e not used in any<br>ons during and<br>latory Guide 1.21,<br>ed. RG 1.21, |  |  |

| Beaver Valley Power Station |   | Procedure Number:<br>1/2-ODC-1 01  |   |
|-----------------------------|---|--|---|
| Title:                      |   | Unit:  | Level Of Use:   |
| ODCM: Index. N              | latrix and History of ODCM Changes  | 1/2<br>Revision:   | Page Number:  |
|                             |   | 16   | 32 of 98  |
|                             | Section C.2 (Location of Monitoring) states in<br>potentially significant paths for release of radio<br>reactor operation, including anticipated operation<br>monitored. Measurements of effluent volume,<br>radionuclides should be made insofar as practic<br>the three process flow rate instruments are loca<br>do not have a significant source term. (5) BVF<br>and 9.4.16 indicate that the building ventilation<br>pathways are non-safety related and are not req<br>related function. (6) There is no effect to the N<br>on these three pathways. The Noble Gas Monit<br>performing their intended functions as describe<br>Section 11.5.2.4.   | part: "All r<br>active mate<br>onal occurr<br>rates of rele<br>al " As<br>ted on efflu<br>PS-2 UFSA<br>system for<br>uired to per<br>loble Gas M<br>tors are still<br>d in BVPS-   | major and<br>erial during normal<br>ences, should be<br>ease, and specific<br>previously stated,<br>tent pathways that<br>R Sections 9.4.13<br>these three<br>form any safety-<br>Monitors located<br>I capable of<br>-2 UFSAR  |
| 8.2.8.2.4                   | This change adds alternate system effluent flow<br>the three BV-1 gaseous effluent pathways to Ap<br>4.3-13. A 10 CFR 50.59 safety evaluation has<br>safety question is involved by adding the altern<br>Appendix C Tables 3.3-13 and 4.3-13. This con<br>following: (1) There is no increase in the prob<br>accidents or malfunctions of equipment importa<br>creation of a possibility for an accident or malfu<br>than any evaluated previously. (3) There is no<br>safety. (4) Also, since this change merely adds<br>that meet the same surveillance requirements of<br>the change will maintain the level of radioactive<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.<br>10 CFR 50. Also, addition of the alternate flow<br>not adversely impact the accuracy or reliability<br>calculations. | prate measu<br>opendix C<br>concluded t<br>ate measuri<br>nclusion is<br>ability or co<br>ant to safety<br>inction of a<br>reduction i<br>s alternate n<br>the primar<br>e effluent co<br>36a, and A<br>rate measu<br>of effluent    | ring devices for<br>Tables 3.3-13 and<br>that no unreviewed<br>ing devices to<br>based on the<br>onsequences of<br>y. (2) There is no<br>a different type<br>n the margin of<br>neasuring devices<br>by channel, then<br>ontrol required by<br>ppendix I to<br>uring devices will<br>dose or setpoint |
| 8.2.8.2.5                   | This change to the ODCM clarifies Turbine Built<br>requirements and clarifies effluent related action<br>of radioactivity in the secondary system. These<br>documented and justified in Calculation Packag<br>Also, since these clarifications were shown to m<br>NUREG-1301 (superseding NUREG-0472) and<br>UFSAR's, then the clarification will maintain th<br>effluent control required by 10 CFR 20.1302, 40<br>50.36a and Appendix I to 10 CFR 50. Also, the<br>adversely impact the accuracy or reliability of e<br>calculation. Also, a 10 CFR 50.59 safety evaluation<br>unreviewed safety question is involved by clarific<br>conclusion is based on the following: (1) There<br>probability or consequences of accidents or mal<br>important to safety. (2) There is no creation of         | ilding sump<br>ns associate<br>clarificatio<br>e No. ERS<br>neet the inte<br>the BVPS<br>le level of r.<br>O CFR Part<br>clarificatio<br>ffluent dose<br>ation has co<br>fying these<br>e is no incre<br>functions o<br>a possibilit | o sampling<br>ed with detection<br>ons are<br>-ATL-95-006.<br>ent of<br>-1 and 2<br>adioactive<br>190, 10 CFR<br>ons will not<br>e or setpoint<br>oncluded that no<br>actions. This<br>ease in the<br>f equipment<br>cy for an accident   |

| Beaver Valley Power Station           |   | Procedure Num<br>1  | nber:<br>/2-ODC-1.01   |  |  |
|---------------------------------------|---|---|--|--|--|
| Title:                                |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference   |  |  |
| ODCM: Index, Matrix                   | and History of ODCM Changes   | Revision:<br>16   | Page Number:<br>33 of 98   |  |  |
| • • • • • • • • • • • • • • • • • • • | or malfunction of a different type than any evaluated previously. (3) There is no reduction in the margin of safety.  |   |  |  |  |
| 8.2.9 <u>Change (9</u> )              | ) of BV-1 and 2 ODCM (Issue 3, Rev 2), Effective  | ve May 199  | <u>97</u>  |  |  |
| 8.2.9.1 A de                          | escription of the changes implemented with this re-   | evision are   | as follows:  |  |  |
| 8.2.9.1.1                             | Index: Editorial changes were made for clarity  | . (See Justi  | fication 1)  |  |  |
| 8.2.9.1.2                             | 8.2.9.1.2 Section 1.0: Clarifying statements were added to Tables 1.2-1a and 1.2-1b to show that the recirculation times listed are based on historical recirculation rates. Figure 1.4-3 was added to show BV-1 and 2 liquid Effluent Release Points. (See Justification 1)  |   |  |  |  |
| 8.2.9.1.3                             | <u>Section 3.0</u> : Removed the option to perform broat the site boundary in a sector with the highest   | oad leaf veg<br>D/Q. (See   | etation sampling<br>Justification 2)   |  |  |
| 8.2.9.1.4                             | <ul> <li>8.2.9.1.4 <u>Appendix C</u>: Added plant specific Mark Numbers to Tables 3.3-12, 4.3-12, 3.3-13 and 4.3-13 (See Justification 1). Corrected typographical errors on Surveillance Requirement 4.11.4.1.1 (See Justification 1). Added clarifying statements from NUREG-1301 and the Radiological Assessment Branch Technical Position to Tables 3.12-2 and 4.12-1 (See Justification 1). Removed the option to perform broad leaf vegetation sampling at the site boundary in a sector with the highest D/Q (See Justification 2).</li> </ul> |   |  |  |  |
| 8.2.9.1.5                             | <u>Appendix E</u> : Corrected typographical error on T<br>Justification 1)  | Table 6.9-1.  | (See   |  |  |
| 8.2.9.1.6                             | <u>Appendix F</u> : Added procedure details to Tables<br>Justification 1)   | 11, 12 and  | 13. (See   |  |  |
| 8.2.9.2 The j                         | ustification used for Change (9) to the ODCM ar   | e as follow   | s:   |  |  |
| 8.2.9.2.1                             | These changes are considered editorial in nature typographical errors or add editorial details from documents. Therefore, these changes will main effluent control required by 10 CFR 20.1302, 40 10 CFR 50.36a and Appendix I to 10 CFR 50. will not adversely impact the accuracy or reliable setpoint calculations.  | e. The chan<br>n previously<br>tain the lev<br>O CFR Part<br>Also, the ec<br>ility of efflu | nges either correct<br>y approved station<br>el of radioactive<br>190,<br>litorial changes<br>uent dose or |  |  |
|                                       |   |   |  |  |  |

| Title:       Unit:         ODCM: Index, Matrix and History of ODCM Changes       1/2         Revision:       16         8.2.9.2.2       This change removes the option to perform broad leaf veg the site boundary (in a sector with the highest D/Q) in lie         Comparison of the sector with the highest D/Q) in lie         Comparison of the sector with the highest D/Q)   | Level Of Use:<br>General Skill Reference<br>Page Number:<br>34 of 98<br>getation sampling at<br>of the garden<br>Technical Position,<br>. Since BV-1 and<br>ed. A review of<br>cised at BV-1 and<br>e exercised, then<br>control required by<br>ppendix I to |  |
|---|--|--|
| ODCM: Index, Matrix and History of ODCM Changes          8.2.9.2.2       This change removes the option to perform broad leaf veg the site boundary (in a sector with the highest D/Q) in lie cansus. Per NUPEG 1301 and the Padiological Branch 7  | Page Number:<br>34 of 98<br>getation sampling at<br>of the garden<br>Technical Position,<br>Since BV-1 and<br>ed. A review of<br>cised at BV-1 and<br>e exercised, then<br>control required by<br>ppendix I to   |  |
| 8.2.9.2.2 This change removes the option to perform broad leaf veg<br>the site boundary (in a sector with the highest D/Q) in lie<br>cansus Per NUPEG 1301 and the Padiological Branch  | getation sampling at<br>of the garden<br>Technical Position,<br>Since BV-1 and<br>ed. A review of<br>cised at BV-1 and<br>exercised, then<br>control required by<br>ppendix I to   |  |
| 8.2.9.2.2 This change removes the option to perform broad leaf vegetation sampling the site boundary (in a sector with the highest D/Q) in lieu of the garden census. Per NUREG-1301 and the Radiological Branch Technical Position this option does not apply to plants with elevated releases. Since BV-1 and 2 have elevated releases, the option should not be exercised. A review of past garden census showed that the option was never exercised at BV-1 and 2. Since this change removes an option that should not be exercised, then the change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a and Appendix I to 10 CFR 50. Also, removal of the option will not adversely impact the accuracy or reliability of effluent dose or setpoint calculations. |  |  |
| 8.2.10 Change (10) of BV-1 and 2 ODCM (Issue 3, Rev 3), Effective June 1  | 997  |  |
| 8.2.10.1 A description of the changes implemented with this revision are  | as follows:  |  |
| 8.2.10.1.1 <u>Section 2.0</u> : A release point for the BV-2 Turbine Buildin (for editorial purposes) to Figure 2.4-2.  | g Vent was added   |  |
| 8.2.10.2 The justification used for Change (10) to the ODCM is as follow  | vs:  |  |
| 8.2.10.2.1 This change is considered editorial in nature. The change adds an equivalent item that was previously located on BV-2 Technical Specification Figure 5.1-2. Since BV-2 Technical Specification Amendment 83 removed this figure, then the gaseous release point for the BV-2 Turbine Building Vent needed transferred to the ODCM. Therefore, since this change is considered editorial, the change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a and Appendix I to 10 CFR 50. Also, the editorial change will not adversely impact the accuracy or reliability of effluent dose or setpoint calculations.  |  |  |
| 8.2.11 Change (11) of BV-1 and 2 ODCM (Issue 3, Rev 4), Effective March   | <u>1998</u>  |  |
| 8.2.11.1 A description of the changes implemented with this revision are  | as follows:  |  |
| 8.2.11.1.1 Index: Editorial changes were made for clarity.  |  |  |
| 8.2.11.1.2 Section 3.0: The distances for the environmental monitori<br>were revised to show a more accurate measurement from<br>Unit 1 Containment Building. The actual sample location<br>remain unchanged. Also, the 4 individual quadrant maps<br>locations were consolidated into 1 map. This is a Correction<br>Condition Report CR 980353.   | ng sample points<br>he center of the<br>s and descriptions<br>showing TLD<br>ve Action to  |  |

| Beaver Valley Power Station                     |  | Procedure Num  | nber:<br>/2-ODC-1.01   |
|---|--|--|--|
| Title:  |  | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference   |
| ODCM: Index, Matrix and History of ODCM Changes |  | Revision:<br>16  | Page Number:<br>35 of 98   |
| 8.2.11.1.3                                      | <u>Section 4.0</u> : Added clarifying statements as to how doses due to radioactive effluents for MEMBERS OF THE PUBLIC conducting activities inside the site boundary are derived and reported. This is a Corrective Action to Condition Report CR 971578.  |  |  |
| 8.2.11.1.4                                      | <ul> <li>8.2.11.1.4 <u>Appendix C</u>: Added statements to Action 23 of Table 3.3-12 to clarify that batch liquid releases may also be initiated with the same Action needed for resuming the release. This is a recommendation from the 1997 RETS Self-Assessment. A note was also added to this table to clarify that independent signatures on the discharge permit satisfy the requirement for "two technically qualified members of the Facility Staff independently verify the release rate calculation" Added Action 29 to RM-1GW-108B on Table 3.3-13. This addition ensures consistency with the other 7 continuous gaseous effluent pathway Actions for Noble Gas Monitor inoperability. Added plant specific Mark Numbers for primary and alternate instrumentation to Tables 3.3-13 and 4.3-13 as follows: (1) For Noble Gas Activity Monitors, [RM-1VS-109 Channel 5] was added as an alternate to [RM-1VS-101B] and [RM-1VIS-110 Channel 5] was added as an alternate to [RM-1VS-107B]. [RM-1GW-109 Channel 5] was not added as an alternate to [RM-1VS-107B]. [RM-1GW-109 Channel 5] was not perform on auto-isolation of gaseous waste decay tank release upon upper activity alarm. (2) For Particulate Activity Monitors, [RM-1VS-101A], [RM-1VS-110 Channel 1] was added as an alternate to [RM-VS-101A], [RM-1VS-101A], [RM-1GW-109 Channel 1] was added as an alternate to [RM-1VS-101A], [RM-1VS-1019 Channel 1] was added as an alternate to [RM-1VS-101A], [RM-1VS-110 Channel 1]</li> </ul> |  | 12 to clarify that<br>ction needed for<br>1997 RETS<br>arify that<br>requirement for<br>dependently verify<br>W-108B on<br>other 7 continuous<br>noperability.<br>nate<br>) For Noble Gas<br>s an alternate to<br>ed as an alternate<br>dded as an<br>not perform on<br>oper activity<br>09 Channel 1] was<br>109 Channel 1] |
| 8.2.11.1.5                                      | <u>Appendix E</u> : Corrected typographical errors on  | Table E:6.9  | 9-1  |
| 8.2.11.1.6                                      | 8.2.11.1.6 <u>Appendix F</u> : Updated the procedure details for primary and alternate<br>instrumentation included in Appendix C Tables 3.3-13 and 4.3-13. Reduced<br>the amount of detail contained in reference to the Operating Manual L-5 logs<br>so that the position of the surveillance on the logs can be changed without<br>having a need to change the Tables in this Appendix. This is a Corrective<br>Action to Condition Report CR 980129.  |  |  |
| 8.2.11.2 The                                    | justification used for Change (11) to the ODCM i   | is as follow:  | s:   |
| 8.2.11.2.1                                      | These changes are considered editorial in nature typographical errors or add editorial details from documents. Therefore, these changes will main effluent control required by 10 CFR 20.1302, 40 10 CFR 50.36a and Appendix I to 10 CFR 50. A will not adversely impact the accuracy or reliable setpoint calculations.   | e. The chan<br>n previously<br>tain the leve<br>O CFR Part<br>Also, the ed<br>ility of efflu | ges either correct<br>y approved station<br>el of radioactive<br>190,<br>litorial changes<br>ient dose or alarm  |

| Beave               | r Valley Power Station   | Procedure Number:<br>1/2-ODC-1.01   |  |
|---------------------|--|---|--|
| Tide:               |  | Unit:   | Level Of Use:<br>General Skill Reference   |
| ODCM: Index, Matrix | and History of ODCM Changes  | Revision:   | Page Number:<br>36 of 98   |
| 8.2.12 Change (1    | 2) of BV-1 and 2 ODCM (Issue 3, Rev 5), Effect   | ive Novem   | ber 1998   |
|                     |  |   | 6 N  |
| 8.2.12.1 A de       | escription of the changes implemented with this re   | evision are   | as follows.  |
| 8.2.12.1.1          | Index: Editorial changes were made for clarity.  | . (See Justi  | ification 1.)  |
| 8.2.12.1.2          | 8.2.12.1.2 <u>Section 1.0</u> : Added clarification for calculation of radionuclide concentration when the Post Dose Correction Factor is >1. (See Justification 1).   |   |  |
| 8.2.12.1.3          | <u>Section 3.0</u> : Added an additional site location for the upstream<br>environmental surface water sample. Added additional method after<br>collecting and compositing this sample. (See Justification 2.)   |   |  |
| 8.2.12.1.4          | <ul> <li>8.2.12.1.4 <u>Appendix C</u>: Revised the definitions for MEMBER(S) OF THE PUBLIC and UNRESTRICTED AREA to ensure compliance with 10 CFR 20.1003. (See Justification 1.) Added a definition for MEMBER(S) OF THE PUBLIC to ensure compliance with 40 CFR 190.02(k). (See Justification 1.) Added plant specific Mark Numbers for primary and alternate instrumentation to Table 3.3-13 that were inadvertently omitted from change (11) to the ODCM. (See Justification 1.) Added clarification to Table 4.11-2 as to where and when H-3 samples of Waste Gas Storage Tanks are to be obtained. This is a Corrective Action to Condition Report CR 981489. (See Justification 1.) Added clarification to note "e" of Table 4.11-2 as to the appropriate ventilation release path. This is a Corrective Action to CR 981490. (See Justification 1.). Corrected an obvious omission on Table 3.12-1 to ensure that 2 TLD's are used for determination of Direct Radiation. (See Justification 1.) Incorporated the appropriate changes to Table 3.12-1 that are described above for Section 3.0.</li> </ul> |   | THE PUBLIC<br>10 CFR 20.1003.<br>OF THE<br>bee Justification 1.)<br>nate<br>nitted from change<br>ion to<br>Gas Storage<br>ondition Report<br>note "e" of<br>This is a<br>orrected an<br>re used for<br>ncorporated the<br>ve for Section 3.0. |
| 8.2.12.1.5          | <u>Appendix F</u> : Added procedure details from the Table 6. This is a Corrective Action to Condition Justification 1.)   | Chemistry I<br>on Report C  | Manual to<br>CR 981488. (See   |
| 8.2.12.2 The        | justifications used for Change (12) to the ODCM  | are as follo  | ows:   |
| 8.2.12.2.1          | These changes are considered editorial in nature<br>typographical errors or add editorial details from<br>documents. Therefore, these changes will main<br>effluent control required by 10 CFR 20.1302, 40<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>will not adversely impact the accuracy or reliabilis<br>setpoint calculations.  | The chann<br>r previously<br>tain the leve<br>) CFR Part<br>Also, the eq<br>lity of efflu | nges either correct<br>y approved station<br>el of radioactive<br>190,<br>ditorial changes<br>uent dose or alarm   |
| Beaver Valley Power Station |   | Procedure Nurr<br>1  | ber:<br>/2-ODC-1.01   |
|-----------------------------|---|--|---|
| Title:                      | ······  | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matrix         | and History of ODCM Changes   | Revision:<br>16  | Page Number:<br>37 of 98  |
| 8.2.12.2.2                  | These changes involve the upstream environmer<br>method and sample site. Since these changes w<br>of NUREG-1301, and BVPS-1 and 2 UFSAR's<br>maintain the level of radioactive effluent contro<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.<br>10 CFR 50. Also, the change will not adversely<br>reliability of effluent dose or alarm setpoint cal<br>10.50 safety evaluation has concluded that no u<br>involved by adding an additional sample site an<br>evaluation is based on the following: (1) There<br>probability or consequences of accidents or mal<br>important to safety. (2) There is no creation of<br>or malfunction of a different type than any evalu-<br>is no reduction in the margin of safety.   | ental surface<br>vere shown<br>, then the clo<br>l required b<br>36a and Ap<br>y impact the<br>culations. A<br>nreviewed<br>d sample m<br>e is no increa<br>functions of<br>a possibilition<br>uated previo  | e water sample<br>to meet the intent<br>hange will<br>by<br>opendix I to<br>e accuracy or<br>Also, a 10 CFR<br>safety question is<br>hethod. This<br>ease in the<br>of equipment<br>ty for an accident<br>ously. (3) There  |
| 8.2.13 <u>Change (13</u>    | 3) of BV-1 and 2 ODCM (Issue 3, Rev 6), Effect  | ive May 19   | 99  |
| 0.2.13.1 A de               | scription of the changes implemented with this re   | trision are  | as ionows:  |
| 8.2.13.1.1                  | Index: Editorial changes were made for clarity.   |  |   |
| 8.2.13.1.2                  | Section 3.0: Updated figure number and table recondundant upstream environmental surface water  | eference. R<br>er sampling   | emoved a location.  |
| 8.2.13.1.3                  | <u>Appendix C</u> : Made editorial changes for clarity.<br>SHUTDOWN and STARTUP. Changed definit<br>agreement with definition provided in Unit 1/2 <sup>-7</sup><br>Amendments 220/97. Changed designations for<br>instruments on Tables 3.3-12, 4.3-12, 3.3-13 and<br>"Pri" and "Alt". Clarified use of the Flow Rate<br>the Cooling Tower Blowdown Line on Tables 3<br>that the Unit 1/2 combined instrument [FT-1CW<br>both of the individual Unit 1 and Unit 2 instrum<br>[2CWS-FT101] are the alternates. Updated Act<br>3.3-12 to describe use of comparable alternate in<br>primary channels are INOPERABLE. Clarified<br>applicability for Unit 2 gaseous effluent monitor<br>Action 30 to show that applicability is for batch<br>containments. Changed reference of Special Re<br>from Technical Specification 6.9.2f to 10 CFR 2<br>permitted by Unit 1/2 Technical Specification A<br>Clarified note b of Table 4.11-2 regarding samp<br>frequencies. Clarified Controls 3.12.1 and 3.12.2<br>NUREG-1301. | Added de<br>tion for OD<br>Technical S<br>r primary au<br>d 4.3-13 fro<br>Measureme<br>.3-12 and 4<br>/-101-1] is<br>ents [FT-10<br>ions 24, 25<br>nonitoring of<br>Table 3.3-<br>rs. Clarifie<br>purges of t<br>port compl<br>20.2203 and<br>mendments<br>ling and sup<br>toensure co | finitions for<br>OCM to ensure<br>opecification<br>and alternate<br>om "P" and "A" to<br>ent Devices for<br>.3-12 to show<br>the primary and<br>CW-101] and<br>and 26 of Table<br>channels when the<br>13 Action 28<br>d Table 3.3-13<br>he reactor<br>iance requirement<br>10 CFR 50.4 as<br>s 220/97.<br>rveillances<br>mpliance with |

| Beave                              | er Valley Power Station   | Procedure Nu  | 1/2-ODC-1.01   |
|------------------------------------|---|---|--|
| Title:                             |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference   |
| ODCM: Index, Matri                 | x and History of ODCM Changes   | Revision:   | Page Number:   |
| 8.2.13.1.4                         | Appendix E: Made editorial changes for clarity<br>Special Report compliance requirement from T<br>to 10 CFR 20.2203 and 10 CFR 50.4 as permit<br>Specification Amendments 220/97. Changed s<br>REMP report from May 1 to May 15 as permit<br>Specification Amendments 220/97. Changed of  | 7. Changed<br>Fechnical S<br>ted by Uni<br>submittal d<br>ted by Uni<br>column hea  | d reference of<br>Specification 6.9.2f<br>t 1/2 Technical<br>ate of annual<br>t 1/2 Technical<br>ding in   |
| 8.2.13.2 The                       | e justification used for change (13) to the ODCM  | is as follov  | vs:  |
| 8.2.13.2.1                         | All changes are considered editorial in nature.<br>intent of the original specification or add equiv<br>guidance document (NUREG-1301) or recent<br>Amendments. Therefore, since these changes a<br>changes will maintain the level of radioactive e<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50<br>10 CFR 50. Also, the editorial changes will no<br>accuracy orreliability of effluent dose or setpoint   | The chang<br>alent items<br>Fechnical S<br>are conside<br>ffluent cor<br>.36a and A<br>t adversely<br>calculatior   | tes either clarify the<br>s form the standard<br>Specification<br>ared editorial, the<br>atrol required by<br>appendix I to<br>y impact the<br>as.   |
| 8.2.14 <u>Change (</u>             | 14) of BV-1 and 2 ODCM (Rev 14), Effective Ma   | <u>rch 2000</u>   |  |
| 8.2.14.1 Pric<br>Rev<br>but<br>cha | or to this ODCM change, the change numbers did<br>vision numbers. For example, the last implemented<br>carried an Issue 3, Revision 6 designation. There<br>nge (14), consecutive Revision numbers will begi  | not match<br>d ODCM<br>fore, as of<br>n with Rev  | the Issue and<br>change was (13),<br>this ODCM<br>vision 14.   |
| 8.2.14.2 A d                       | escription of the changes implemented with this r   | evision are   | as follows:  |
| 8.2.14.2.1                         | Index: Editorial changes were made for clarity. reports CR 982097, CR 992652 and CR 99302   | Reference<br>1 were add   | es to condition<br>ed.   |
| 8.2.14.2.2                         | <u>Appendix C</u> : Editorial changes were made for a<br>typographical error on Table 3.3-12 in regards a<br>the grab sampling requirement from 8 hours to<br>Action 24 (NUREG-1301, Table 3.3-12, Action<br>change). Enhanced the Channel Functional Tea<br>Table 4.3-12 from Q(6) to Q(1) for RM-1DA-1<br>Condition Report CR 993021). Add clarification<br>to show the plant specific Mark Numbers for the<br>Sample Flow Rate Measuring Devices. Correct<br>Table 3.3-13 Action 27. Separated Action 28 of<br>Action 28 requirements for System Effluent Flot<br>Devices/Process Flowrate Monitors and individe<br>for Sample Flow Rate Measuring Devices/Sam<br>Added clarification to Table 3.3-13 to show that<br>applicable for continuous releases. Added an a | clarity. Co<br>to FT-CW-<br>12 hours for<br>a 36 and 37<br>st requirem<br>00 (Correction to Table<br>e primary st<br>ted a typog<br>f Table 3.3<br>ow Rate Mo<br>ual Action<br>ple Flowra<br>t Action 29<br>Iternate me | rrected a<br>101-1. Changed<br>or Table 3.3-12<br>Vallow this<br>thents on<br>tive Action to<br>3.3-13 and 4.3-13<br>and alternate BV-1<br>graphical error on<br>3-13 into individual<br>easuring<br>28 requirements<br>te Monitors.<br>9 and Action 32 are<br>thod in lieu of |

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| Beaver Valley Power Station  |   | Procedure Number:<br>1/2-ODC-1.01   |   |
|--|---|---|---|
| Title:   |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matrix  | and History of ODCM Changes   | Revision:   | Page Number:<br>39 of 98  |
|  | communication is lost to the Control Room) to<br>Table 3.3-13 Action 29. Changed the grab sam<br>hours to 12 hours for Table 3.3-13 Action 29 an<br>Table 3.3-013, Action 47 allows this change). (<br>errors on Table 4.11-1 in regards to liquid comp<br>table notation.  | show comp<br>pling requir<br>id Action 3<br>Corrected to<br>posite analy  | bliance to<br>rement from 8<br>2 (NUREG-1301,<br>ypographical<br>ysis frequency and   |
| 8.2.14.2.3   | <u>Appendix F</u> : Made editorial changes for clarity.<br>details for primary and alternate instrumentation<br>Tables 3.3-13 and 4.3-13. Added appropriate re<br>Logs (i.e., HPM Appendix 1) when these logs a<br>Appendix C Surveillances and Actions (Correct<br>Report CR 992652).  | Updated t<br>n included i<br>eferences to<br>re used sati<br>tive Action  | he procedure<br>in Appendix C<br>the HP Shift<br>isfy ODCM<br>to Condition  |
| 8.2.14.3 The j   | justification used for change (14) to the ODCM is   | s as follows  | 3:  |
| 8.2.14.3.1 Most of these changes are considered editorial in nature. All changes were screened for 10CFR50.59 applicability. In summary, the BVPS-1 and 2 UFSAR's are not impacted, because the changes either clarify the intent of the original specification, add plant specific Mark Numbers, or add equivalent items from the standard guidance document (NUREG-1301). Therefore, these changes will maintain the level of radioactive effluent control required by 10CFR20.1302, 40CFR Part 190, 10 CFR50.36a, and Appendix I to 10CFR50. Also, these changes will not adversely impact the accuracy or reliability of effluent dose or alarm setpoint calculations. |   |   | All changes were<br>SVPS-1 and 2<br>rify the intent of<br>s, or add<br>JREG-1301).<br>tive effluent<br>FR50.36a, and<br>ersely impact the<br>lculations.                |
| 8.2.15 <u>Change (15</u>   | 5) of BV-1 and 2 ODCM (Rev 15), Effective Aug   | <u>gust 2000</u>  |   |
| 8.2.15.1 A des   | scription of the changes implemented with this re   | vision are a  | as follows:   |
| 8.2.15.1.1   | <u>Index</u> : Editorial changes were made for clarity.<br>Report CR 001682 was added. Reference to NF was added.   | Reference<br>C unresolv   | to Condition<br>ved Item 83-30-05   |
| 8.2.15.1.2   | <u>Appendix C</u> : Editorial changes were made for cl<br>of Table 3.3-13 into Action 28A and 28B to sho<br>Action 28A requirements for system/process flo<br>Action 28B requirements for sampler flow rate r<br>alternate method in lieu of 4 hour flow rate estim<br>design values for system/process flow rate) to sh<br>Table 3.3-13 Action 28A when the system/proce<br>inoperable. Annotated Actions 30 of Table 3.3-<br>to show differentiation between Action 30A requirement<br>containment purges and Action 30B requirement<br>containment purges. | larity. Ann<br>w different:<br>w rate measurement<br>nations (i.e.<br>how compli-<br>ess flow rate<br>13 into Act<br>uirements f<br>ts for BV-2 | otated Actions 28<br>iation between<br>surement and<br>nt. Added an<br>.; assume ODCM<br>iance with<br>e monitor is<br>ion 30A and 30B<br>for BV-1 reactor<br>2 reactor |

| Beaver Valley Power Station   |   | Procedure Num   | nber:<br>/2-0DC-1.01   |
|---|---|---|--|
| Title:  |   | Unit:   | Level Of Use:  |
| ODOM Is here Matrice and Winters of ODOM Changes  |   | 1/2<br>Revision:  | General Skill Reference<br>Page Number:  |
|   |   | 16  | 40 of 98   |
| 8.2.15.2 The  | justification used for change (15) to the ODCM i  | s as follow   | s:   |
| 8.2.15.2.1  | Some of these changes are considered editorial were screened for 10CFR50.59 applicability an the BVPS-1 and 2 UFSAR's. Since the editoria the original specification, then these changes we radioactive effluent control required by 10CFR50.36a, and Appendix I to 10CFR50. A impact the accuracy or reliability of effluent do calculation. | in nature. '<br>d determine<br>al changes o<br>ill maintain<br>20.1302, 40<br>lso, these c<br>se or alarm | These changes<br>ed not to impact<br>clarify the intent of<br>the level of<br>OCFR Part 190,<br>hanges will not<br>setpoint  |
| <ul> <li>impact the accuracy or reliability of effluent dose or alarm setpoint calculation.</li> <li>8.2.15.2.2 The change to allow use of design (maximum) system flow rates in lieu of 4 hour flow rate estimations (for five of the eight gaseous effluent release pathways) was screened for 10CFR50.59 applicability and determined not impact the BVPS-1 and 2 UFSAR's. The 4 hour flow rate estimations for these effluent release pathways have never been used in ODCM Dose and Dose Rate Calculations. The method for use of process flow rates in ODCI Dose and Dose Rate Calculations remains unchanged. For example, BVPS-1 and BVPS-2 is currently using, and will continue to use design (maximum) system flow rates in ODCM Dose and Dose Rate Calculations for all eight gaseous effluent release pathways. This is necessary to ensure that DLC response to NRC Unresolved Item 50-334/83-30-05 is not compromised. Also this change is considered similar and within the justification provided for ODCM change (8) that removed all of the process flow rate operability and surveillance requirements for the other three gaseous effluent release pathways. Based on the above, these changes will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. Also, these changes will not impact the accuracy or reliability</li> </ul> |   |   | v rates in lieu of<br>effluent release<br>determined not to<br>estimations for<br>DCM Dose and<br>ow rates in ODCM<br>example,<br>to use design<br>ate Calculations<br>essary to ensure<br>-05 is not<br>within the<br>all of the process<br>other three<br>ese changes will<br>by<br>ppendix I to<br>acy or reliability |
| 8.2.16 <u>Change (1</u>   | 5) of BV-1 and 2 ODCM (Effective April 2002)  |   |  |
| 8.2.16.1 A de   | scription of the changes implemented with this re   | evision are a   | as follows:  |
| 8.2.16.1.1  | The entire BV-1 and 2 ODCM was converted to delineated in 1/2-ADM-0100. As part of this pr separated into eight procedures as follows:  | o the ODC f   | Format as<br>DDCM was  |
| 8.2.16.1.1.   | 1 <u>1/2-ODC-1.01, Rev 0;</u> ODCM: Index, Ma<br>Changes (formerly; ODCM Index and Ap   | atrix and H<br>pendix F)  | istory of ODCM   |
|   |   |   |  |

- 8.2.16.1.1.2 <u>1/2-ODC-2.01, Rev 0;</u> ODCM: Liquid Effluents (formerly; ODCM Section 1 and 5)
- 8.2.16.1.1.3 <u>1/2-ODC-2.02, Rev 0;</u> ODCM: Gaseous Effluents (formerly; ODCM Section 2 and 5)

| Beave                         | r Valley Power Station   | Procedure Nu  | mber:<br>1/2-ODC-1.01   |
|-------------------------------|--|---|---|
| Title:<br>ODCM: Index, Matrix | and History of ODCM Changes  | Unit:<br><u>1/2</u><br>Revision:<br><u>16</u>   | Level Of Use:<br>General Skill Reference<br>Page Number:<br>41 of 98  |
| 8.2.16.1.1                    | .4 <u>1/2-ODC-2.03, Rev 0;</u> ODCM: R<br>Monitoring Program (formerly; O  | adiological Envir<br>DCM Section 3)   | onmental  |
| 8.2.16.1.1                    | .5 <u>1/2-ODC-2.04, Rev 0;</u> ODCM: In<br>(formerly; ODCM Section 4)  | formation Relate  | d to 40 CFR 190   |
| 8.2.16.1.1                    | .6 <u>1/2-ODC-3.01, Rev 0;</u> ODCM: D<br>and Source Term Inputs (formerly   | ispersion Calcula; ODCM Append  | tional Procedure<br>lix A & B)  |
| 8.2.16.1.1                    | .7 <u>1/2-ODC-3.02, Rev 0;</u> ODCM: B<br>ODCM Appendix D)   | ases for ODCM (   | Controls (formerly;   |
| 8.2.16.1.1                    | .8 <u>1/2-ODC-3.03, Rev 0;</u> ODCM: C<br>Programs (formerly; ODCM Appe  | ontrols for RETS<br>endix C and E)  | and REMP  |
| 8.2.16.1.2                    | Procedure 1/2-ODC-3.02, Rev 0: Techn<br>was duplicated in the Bases for ODCM (<br>Technical Specification Amendments 14  | ical Specification<br>Controls as permi<br>A-246/2A-124. <sup>(3.2</sup>  | n Bases 3/4.3.3.1<br>tted by Unit 1/2<br>.6.8)  |
| 8.2.16.1.3                    | Procedure 1/2-ODC-3.03, Rev 0: Portion<br>LCO 3.3.3.1 (including portions of Table<br>to the ODCM Controls as permitted by U<br>Amendments 1A-246/2A-124. <sup>(3.2.6.8)</sup> Spe<br>High Range Channels of Noble Gas Effl<br>9), RM-1VS-110 (7 and 9), RM-1GW-10<br>and 109D], the Atmospheric Steam Dum<br>Discharge Monitors [RM-1MS-100A, B<br>Pump Turbine Exhaust Monitor [RM-1M<br>Monitoring (PMM) was also added for c<br>when the primary instrument is inoperab<br>considered an editorial change because i<br>(or appropriate form number), which we<br>approved station documents. | ns of Technical Speed 3.3-6 and 4.3-3<br>Jnit 1/2 Technical<br>ecifically, this includent Monitors [R<br>09 (7 and 9), and<br>up Valve/Code Sa<br>and C] and Auxi<br>(IS-101]. The Pre-<br>larification of neo-<br>le. Addition of the<br>t merely specifies<br>re included as PM | pecification<br>b) were transferred<br>l Specification<br>cludes the Mid and<br>M-1VS-109 (7 and<br>2HVS-RQ109C<br>fety Relief Valve<br>liary Feedwater<br>cplanned Method of<br>cessary actions<br>the PMM's are<br>the asset number<br>IM's in previously |
| 8.2.16.1.4                    | <u>Procedure 1/2-ODC-3.03, Rev 0</u> : Added<br>Control 3.3.3.9 Table 3.3-13 to show that<br>applicable to the initial batch purge of the<br>All other releases of reactor containment   | clarifications to (<br>t Action 30A and<br>e reactor contains<br>atmosphere (i.e.)  | ODCM<br>Action 3B are<br>nent atmosphere.<br>after the initial  |

| Beave               | r Valley Power Station   | Procedure Number: $1/2 - ODC - 1 O1$   |  |
|---------------------|--|--|--|
| Title:              |  | Unit:  | Level Of Use:  |
|                     |  | 1/2<br>Revision  | General Skill Reference  |
| ODCM: Index, Matrix | and History of ODCM Changes  | 16   | <u>42 of 98</u>  |
| 8.2.16.İ.5          | Procedure 1/2-ODC-3.03, Rev 0: Added specific ODCM Control 3.3.3.10 Table 3.3-13 and Table Flow Rate Monitor flow transmitters [2HVS-F] 2HVL-FIT112-1 and 2RMQFIT303-1] may be alternates when the primary instruments [RM-1 2HVS-RQ101, 2RMQ-RQ301, 2HVL-RQ112 are spectively, are INOPERABLE. This is considered because the primary monitoring channel (i.e.; R display already receives its input from these same statements in the set of the set o | The plant ass<br>e 4.3-13 to<br>T101-1, 2F<br>used as con<br>1 Monitor<br>and 2RMQ-<br>dered an ed<br>M-11 Mon<br>ne flow tran     | set numbers to<br>show that Sample<br>MQ-FIT301-1,<br>nparable<br>Item 28 for<br>-RQ303],<br>litorial change<br>nitor Item 28)<br>nsmitters.           |
| 8.2.16.1.6          | <u>Procedure 1/2-ODC-3.03, Rev 0</u> : Added notation<br>Table 3.3-13 and Table 4.3-13 to show that [RM<br>be used as a comparable alternate to [RM-1GW<br>releases. However, since [RM-1GW-109 Chan<br>automatic isolation of gaseous waste decay or s<br>notation was also added to prevent using this m<br>alternate for batch releases. This is considered<br>merely specifies the asset number of a redundar<br>channel that was included in previously approve   | on to ODCM<br>4-1GW-109<br>-108B] for<br>nel 5] cann<br>torage tank<br>onitor as a<br>an editorial<br>at alternate<br>ed station d | A Control 3.3.3.10<br>9 Channel 5] may<br>continuous<br>ot perform an<br>releases, then<br>comparable<br>change because it<br>monitoring<br>locuments. |
| 8.2.16.1.7          | <u>Procedure 1/2-ODC-3.03, Rev 0</u> : Replaced the a<br>Activity Monitors" in ODCM Control 3.3.3.10 <sup>4</sup><br>Table 4.3-13 with requirements for "Particulate<br>is considered an editorial change because the N<br>for preparation of ODCM Controls (NUREG-12<br>that the requirements listed in these Tables are f<br>Samplers", and not for the "Particulate Activity  | requiremen<br>Tables 3.3-<br>and Iodine<br>RC guidano<br>301) contain<br>for the "Par<br>Monitors".                                | ts for "Particulate<br>13 and<br>Samplers". This<br>ce document used<br>ns the clarification<br>ticulate and Iodine                                    |
| 8.2.16.2 The        | justification used for change (16) to the ODCM is  | s as follows   | 3:   |
| 8.2.16.2.1          | The specific radiation monitoring channels trans<br>alarms and indications to alert plant personnel of<br>and to assist in evaluating and trending plant eff<br>applicable if the monitors are inoperable required<br>performed on a daily basis, or that explanations<br>in an annual effluent report. The Actions do not<br>operability of other systems nor do the Actions is<br>be terminated at any time.   | sferred to the<br>of high radia<br>duents. The<br>conly that a<br>of inoperate<br>t impact or<br>require that                      | ne ODCM provide<br>ation conditions<br>e Actions<br>area surveys be<br>pility be provided<br>reference the<br>plant operation                          |
| 8.2.16.2.2          | Some of the radiation monitoring effluent monitoring effluent monitoring effluent monitoring effluent monitoring indications used to assess selected plant accident consistent with the recommendations of the monitors do not provide indication for post a been identified as Regulatory Guide 1.97 Type A   | ors transfer<br>parameters<br>f NUREG-<br>accident van<br>A or Catego  | rred to the ODCM<br>s following an<br>0737. However,<br>riables that have<br>ory I.  |

| Beaver Valley Power Station  |   | Procedure Num   | <sup>ber:</sup><br>/2-ODC-1.01  |  |
|--|---|---|---|--|
| Title:   |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference  |  |
| ODCM: Index, Matrix and History of ODCM Changes  |   |   | Page Number:<br>43 of 98  |  |
| 8.2.16.2.3 The Safety Analysis performed for the License Amendments conclude that<br>the radiating monitoring channels transferred to the ODCM do not reduce<br>the effectiveness of the requirements being relocated. Rather, the transferr<br>results in a change in the regulatory control required for future changes may<br>to the requirements. The requirements will continue to be implemented by<br>the appropriate plant procedures in the same manner as before. However,<br>future changes to the transferred requirements will be controlled in<br>accordance with 10 CFR 50.59 instead of requiring a license amendment p<br>10 CFR 50.90. |   |   |   |  |
| <ul> <li>8.2.16.2.4 Based on the above, these changes will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. Also, these changes will not impact the accuracy or reliability of effluent dose or alarm setpoint calculation.</li> </ul>  |   |   |   |  |
| 8.2.17 Change (17)   | of BV-1 and 2 OCDM (Effective August 2002   | )   |   |  |
| 8.2.17.1 A descr   | iption of the changes implemented with this re  | vision are a  | as follows:   |  |
| 8.2.17.1.1 <u>Procedure 1/2-ODC-3.03, Rev 1</u> : Technical Specification LCO 3.11.1.4 for<br>Liquid Storage Tank Activity Limits, and LCO 3.11.2.5, for Gas Storage<br>Tank Activity Limits were transferred to ODCM Controls 3.11.1.4 and<br>3.11.2.5 respectively as permitted by Unit 1/2 Technical Specification<br>Amendments 1A- 250/2A-130. <sup>(3.2.6.9)</sup>   |   |   |   |  |
| 8.2.17.1.1.1   | As part of the preparation work for transfer<br>Activity Limits to the ODCM, the 10 Curr<br>re-verified and documented in Calculation<br>Package ERS-ATL-95-007. <sup>(3.2.3.9)</sup> The respondent tank specific activity limits to ens<br>Appendix B Table 2, Col. 2 EC Limits with<br>accidental release of the tank(s) contents of<br>LCO 3.11.1.4 used a generic limit of 10 C<br>tanks listed. However, formal documenta<br>10 Curie value could not be located in the | er of the Lid<br>ie Limit for<br>sults of this<br>ure that the<br>ll be mainta<br>occur. Prev<br>furies for ea<br>tion for der<br>records sto | quid Storage Tank<br>these tanks was<br>calculation<br>10 CFR 20<br>ained should an<br>iously,<br>ich of the four<br>ivation of the<br>rage system. |  |
| 8.2.17.1.1.2 In addition, individual tank Activity limits were developed for the Unit 1 and 2 Refueling Water Storage Tanks (RWST's), which we also added to this ODCM Control. The Surveillance Requiremen determination of RWST Activity will not be performed once per 7 days like the other Liquid Storage Tanks, because radioactive material is not added to the RWST's on a weekly basis. Therefore surveillance for determination of (RWST's) Activity will be performed within 7 days of returning reactor cavity water (radioactive material back to the RWST (i.e.; during a refueling outage).   |   |   | loped for the<br>'s), which were<br>Requirements for<br>ed once per<br>adioactive<br>s. Therefore, the<br>will be performed<br>active material)     |  |

| Beave                   | r Valley Power Station  | Procedure Num  | nber:<br>/2-ODC-1.01  |
|-------------------------|---|--|---|
| Title:                  |   | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matrix     | and History of ODCM Changes   | Revision:<br>16  | Page Number:<br>44 of 98  |
| 8.2.17.1.2              | <u>Procedure 1/2-ODC-3.03, Rev 1</u> : Changed the<br>Radioactive Effluent Release Report from Apri<br>Unit 1/2 Technical Specification Amendments  | due date of<br>il 1 to May<br>1A-250/2A  | the Annual<br>1 as permitted by<br>-130. <sup>(3.2.6.9)</sup>   |
| 8.2.17.1.3              | Procedure 1/2-ODC-3.03, Rev 1: Changed Tab<br>correct an obvious omission of Channel Operat<br>Requirements for Flow Rate Measurement Dev<br>Liquid Waste Containment Drain Line. This of<br>CR 02-05533. <sup>(3.2.2.12)</sup>   | le 3.3-12 of<br>pility and A<br>vice [FR-1L<br>bvious omis   | F Control 3.3.3.9 to<br>ction Statement<br>W-103] on the<br>ssion is detailed in  |
| 8.2.17.1.4              | Procedure 1/2-ODC-3.03, Rev 1: Made editoria<br>primary asset numbers of the BVPS-2 Sample I<br>on Tables 3.3-13 and 4.3-13 of Control 3.3.3.10<br>the primary Sampler Flowrate Monitor is the de<br>monitoring sample flowrate through the Particu<br>Flowpath, not the Particulate and Iodine Monito  | al changes to<br>Flowrate Me<br>D. These ch<br>evice that is<br>alate and Ioo<br>pring Flowp   | o correct the<br>onitors as shown<br>anges clarify that<br>used for<br>line Sampler<br>oath.  |
| 8.2.17.2 The            | Justification used for change (17) of the ODCM I  | is as follows  | S:  |
|                         | Technical Specification to the ODCM and chan<br>Annual Radioactive Effluent Release Report as<br>Technical Specification Amendments 1A-250/2<br>change, the ODCM Control for Liquid Storage<br>enhanced to add ODCM Controls and Surveilla<br>Unit 1 and Unit 2 RWST's. Therefore, these ch<br>Technical Specification Amendments) will mai<br>effluent control required by 10 CFR 20.1302, 4<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>impact the accuracy or reliability of effluent do<br>calculation. | ges the due<br>permitted b<br>A-130. As<br>Tank Activ<br>nce Require<br>anges (as d<br>ntain the lev<br>0 CFR Part<br>Also, these<br>se or alarm | date for the<br>by Unit 1/2<br>part of this<br>ity Limits was<br>ements for the<br>elineated in the<br>vel of radioactive<br>190,<br>changes will not<br>setpoint |
| 8.2.18 <u>Change (1</u> | 8) of the BV-1 and 2 ODCM (Effective October 2  | 2002)  |   |
| 8.2.18.1 A de           | escription of the changes implemented with this re-   | evision are a  | as follows:   |
| 8.2.18.1.1              | <u>Procedure 1/2-ODC-3.03, Rev 2</u> : Added require<br>groups notification of pending ODCM changes<br>CR 09-05711. <sup>(3.2.2.13)</sup>   | ement for ag<br>as describe  | oplicable station<br>d in   |
| 8.2.18.2 The            | justification used for change (18) of the ODCM is   | s as follows   | ::  |
| 8.2.18.2.1              | This change is considered editorial in nature, wh<br>from Regulatory Applicability Determination. The<br>not impact the level of radioactive effluent contribution of the<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.<br>10 CFR 50. Also this change will not impact the<br>effluent dose or alarm setpoint calculation.   | hich exemp<br>Therefore, t<br>rol required<br>36a, and Ap<br>e accuracy  | ts the change<br>his change will<br>by<br>opendix I to<br>or reliability of   |

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| Beaver Valley Power Station  |  | Procedure Number: $1/2 - ODC - 1.01$ |   |
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| Title: Unit: Level Of Use:   |  | Level Of Use:                        |   |
| ODCM Index Matrix  | and History of ODCM Changes  | <u>1/2</u><br>Revision:              | General Skill Reference<br>Page Number:   |
|  |  | 16                                   | 45 of 98  |
| 8.2.19 <u>Change (1</u>  | 9) of BV-1 and 2 ODCM (Effective November 2  | <u>002)</u>                          |   |
| 8.2.19.1 A de  | escription of the changes implemented with this r  | evision are                          | as follows:   |
| <ul> <li>8.2.19.1.1 Procedure 1/2-ODC-2.01, Rev 1: Changed Table 1.1-1a and 1.1-1b to add Zn-65 to the respective BV-1 and 2 Liquid Source Term as described in CR 02-06174 (CA-01, CA-13 and CA-14). For information, zinc may be added to the reactor coolant system in an effort to reduce general corrosion of primary system materials and mitigation of stress corrosion cracking. Added benefits to zinc addition involve preferential release of nickel and cobalt which, in-turn, reduces plant dose rates. Development of the specif Zn-65 Annual Release Activity is delineated in Calculation Package No. ERS-ATL-83-027.<sup>(3.2.3.1)</sup> Addition of Zn-65 to the source terms also caused changes in the Liquid Effluent Monitor Alarm Setpoints, and appropriate monitor conversion factors.</li> </ul> |  |                                      | nd 1.1-1b to add<br>s described in<br>on, zinc may be<br>general corrosion<br>sion cracking.<br>e of nickel and<br>ent of the specific<br>n Package<br>urce terms also<br>points, and |
| 8.2.19.1.2 <u>Procedure 1/2-ODC-2.01, Rev 1</u> : Table 1.1-1a was changed to update the remainder of the source term with annual release values derived in Stone a Webster Calculation Package No. UR(B)-160. <sup>(3.2.3.10)</sup>   |  |                                      | d to update the<br>crived in Stone and  |
| 8.2.19.1.3 <u>Procedure 1/2-ODC-2.01, Rev 1</u> : Editorial changes were made to this procedure for update of ODCM references and to add discussion of wh Liquid Waste Evaporators are no longer used at BV-1 and 2 to process waste.  |  |                                      | nade to this<br>ussion of why<br>2 to process liquid  |
| 8.2.19.2 The   | justification used for change (19) of the ODCM i   | s as follow                          | s:  |
| <ul> <li>8.2.19.2.1 Addition of Zn-65 to the BV-1 and 2 Liquid Source Terms, along with update of the BV-1 and 2 Liquid Source Term is considered a procedure correction, and is enveloped by the Regulatory Applicability Determination performed for BV-1 ECP-02-0410. Based on the above, these changes wil maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. Also, these changes will not impact the accuracy or reliability of effluent dose or alarm setpoint calculation.</li> </ul>  |  |                                      | e, along with<br>ed a procedure<br>ty Determination<br>nese changes will<br>by<br>ppendix I to<br>acy or reliability  |
| 8.2.20 <u>Change (2</u> 0  | 0) of BV-1 and 2 ODCM (Effective October 2003  | <u>3)</u>                            |   |
| 8.2.20.1 A de  | scription of the changes implemented with this re  | evision are                          | as follows:   |
| 8.2.20.1.1   | <u>Procedure 1/2-ODC-2.01, Rev 2</u> : Changed LW (Attachment D) to indicate the flow path for cro<br>Unit 1 and Unit 2. | System dia<br>ss connect             | grams<br>of LW between  |
| 8.2.20.1.2   | Procedure 1/2-ODC-2.02, Rev 1: Changed Tabl<br>term for the Unit 1 Containment Vacuum Pump<br>CR03-04830 (CA-03).        | e 2.1-1 to r<br>s as describ         | evise the source<br>bed in  |

| Beaver Valley Power Station |               | Procedure Num   | iber:<br>/2-ODC-1.01  |   |
|-----------------------------|---------------|---|---|---|
| Title:                      |               |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference  |
| ODCM:                       | Index, Matrix | and History of ODCM Changes   | Revision:<br>16   | Page Number:<br>46 of 98  |
|                             | 8.2.20.1.3    | Procedure 1/2-ODC-3.03, Rev 3: Changed the 1<br>Monitoring (PMM) in Attachment D Table 3.3-<br>Specifically, the 2nd PMM for the Reactor Buil<br>Range Noble Gas Monitors (RM-1VS-110 Ch<br>FROM "(RM-1VS-107B)" TO "(RM-1VS-107)<br>Also, the 2nd PMM for the Auxiliary Building<br>High Range Noble Gas Monitors (RM-1VS-101)<br>FROM "(RM-1VS-101B)" TO "(RM-1VS-101)<br>Similarly, the 2nd PMM for the Gaseous Waste<br>& High Range Noble Gas Monitors (RM-1GW-<br>changed FROM "(RM-1GW-108B)" TO "(RM-<br>109 Ch 5)".  | Preplanned<br>6 and Tabl<br>ding/SLCR<br>7 & Ch 9) v<br>8, or RM-1<br>Ventilation<br>9 Ch 7 & C<br>B, or RM-1<br>6/ Process V<br>-109 Ch 7 &<br>-1GW-108I | Method of<br>e 4.3-3.<br>S Mid & High<br>vas changed<br>VS-110 Ch 5)".<br>System Mid &<br>h 9) was changed<br>VS-109 Ch 5)".<br>Vent System Mid<br>& Ch 9) was<br>B, or RM-1GW- |
|                             | 8.2.20.1.4    | <u>Procedure 1/2-ODC-3.03, Rev 3</u> : Changed Atta<br>update the activity limits for the liquid storage t<br>in Calculation Package No. ERS-ATL-95-007.  | chment J C<br>anks to the   | ontrol 3.11.1.4 to values specified   |
|                             | 8.2.20.1.5    | 20.1.5 <u>Procedure 1/2-ODC-3.03, Rev 3</u> : Changed Attachment K Table 4.11-2 to<br>add more specific guidance for sampling of Gaseous Effluent Pathways.<br>Specifically, this table is generic for Unit 1 & Unit 2 Gaseous Effluent<br>Pathways, but sampling may only need required at some of the Gaseous<br>Effluent Pathways rather than all of the Gaseous Effluent Pathways (as could<br>be inferred from the wording in the Table Notation). Therefore to prevent<br>unnecessary sampling, applicability statements were added to this table to<br>delineate which ventilation systems are affected by the note(s). Also,<br>note (f) includes a clarification of how compliance to this requirement is<br>achieved per response to NRC Unresolved Item 50-334/83-30-05. |   |   |
| 8.                          | 2.20.2 The j  | ustifications used for change (20) of the ODCM  | are as follo  | ws:   |
|                             | 8.2.20.2.1    | Procedure 1/2-ODC-2.01, Rev 2: Changing the cross connect between Unit 1 and Unit 2 is not a configuration, and is considered a procedure conprocedure of the ODCM already describes the s system. Also, the UFSAR's describe the cross of this change will maintain the level of radioactive 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50. 10 CFR 50. Also, this change will not impact the effluent dose or alarm setpoint calculation.   | diagram to<br>a change to<br>rrection. Sp<br>hared radw<br>connect. Ba<br>e effluent c<br>36a, and Ap<br>ne accuracy                                      | show the LW<br>plant<br>pecifically, this<br>aste treatments<br>ased on the above,<br>ontrol required by<br>ppendix I to<br>or reliability of                                   |

| Beave              | er Valley Power Station  |  | 1/2-ODC-1.01   |
|--------------------|--|--|--|
| Title:             | <u> </u>   | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference   |
| ODCM: Index, Matri | x and History of ODCM Changes  | Revision:  | Page Number:<br>47 of 98   |
| 8.2.20.2.2         | Procedure 1/2-ODC-2.02, Rev 1: The origination of the GW System was based on an operating containment vacuum pumps. The flow rate Consequently, the source-term was revised Package ERS-HHM-87-014 and then trans Although the new pumps represent a factor gaseous effluent monitor alarm setpoints as previous setpoints were based on a percent and those values were actually above the ron-scale value was substituted. This is also setpoints, so the same on-scale values are source term is considered a procedure corres Regulatory Applicability Determination performed as a procedure corres or reliability of effluent dose or a procedure change implements a Corrective Procedure 1/2-ODC-3.03, Rev 3: Changin, Monitoring (PMM) will prevent unnecessa PMM) when the primary channel for the Monitor is inoperable. Specifically, IF oth channels are available on that effluent path be assumed with those channels as the 2nd PMM (i.e.; obtaining grab gas samples ever performed as a last resort to a complete late monitoring channels being available on that above, this change will maintain the level of required by 10 CFR 20.1302, 40 CFR Part Appendix I to 10 CFR Part Appen | inal source-ter<br>g flow rate of 5<br>te for the new p<br>d per Calculation<br>scribed to this p<br>or of 15 increas<br>re unchanged.<br>tage of Offsite<br>ange of the ins<br>tage of the ins<br>true for the re-<br>used. In summ<br>ection, and is con-<br>erformed for B<br>tain the level of<br>02, 40 CFR Pa<br>so, this change<br>tain the level of<br>02, 40 CFR Pa<br>so, this change<br>tain the level of<br>02, 40 CFR Pa<br>so, this change<br>tain setpoint of<br>the Preplanne<br>ary grab samplified or High Ra-<br>her Noble Gas<br>inway, <u>THEN</u> in<br>PMM. In sum<br>ery 12 hours) si<br>the of continuous<br>at effluent path<br>of radioactive of<br>190, 10 CFR 2 | m calculation for<br>scfm for the Unit 1<br>pumps is 70 scfm.<br>on<br>procedure.<br>e in flow rate, the<br>Specifically, the<br>Dose Rate Limits,<br>truments, so an<br>e-calculated<br>hary, changing the<br>enveloped by the<br>V-1 ECP-02-0079.<br>f radioactive<br>rt 190, 10 CFR<br>will not impact the<br>calculation. This<br>R03-04830-03.<br>ed Method of<br>ing (i.e.; the 3rd<br>nge Noble Gas<br>Monitoring<br>nonitoring should<br>hould only be<br>is noble gas<br>way. Based on the<br>effluent control<br>50.36a, and |
| 8.2.20.2.4         | reliability of effluent dose or alarm setpoint<br>change implements a Corrective Action per<br><u>Procedure 1/2-ODC-3.03, Rev 3:</u> Changing<br>storage tanks does not affect original plant<br>the original analyses were performed in acc<br>SRP 15.7.3 using the best available data at<br>were also performed in accordance the sam<br>accurate) data was used to determine allow<br>Based on the above, this change will maint<br>effluent control required by 10 CFR 20.130<br>10 CFR 50.36a, and Appendix I to 10 CFR<br>impact the accuracy or reliability of effluen<br>calculation. This procedure change implet<br>CR 03-07487-05.   | at calculation<br>r CR03-06123<br>g the activity li<br>accident analy<br>cordance with<br>that time. The<br>he NUREG, bu<br>vable activity co<br>cain the level of<br>02, 40 CFR Par<br>50. Also, this<br>at dose or alarm<br>nents a Correct  | This procedure<br>-01.<br>mits for liquid<br>rses. Specifically,<br>NUREG-0800<br>e updated analyses<br>t current (more<br>ontent in each tank.<br>f radioactive<br>rt 190,<br>s change will not<br>n setpoint<br>tive Action per  |

| Beaver Valley Power Station |   | Procedure Num   | 1ber:   |
|-----------------------------|---|---|---|
| Title:                      |   | Unit:   | Level Of Use:   |
|                             |   | 1/2<br>Revision   | General Skill Reference   |
| ODCM: Index, Matrix         | and History of ODCM Changes   | <u>16</u>   | 48 of 98  |
| 8.2.20.2.5                  | Procedure 1/2-ODC-3.03, Rev 3: Changing Att<br>add more specific guidance for sampling of Gas<br>considered a simple change. Specifically, this of<br>unnecessary sampling of unaffected ventilation<br>above, this change will maintain the level of rad<br>required by 10 CFR 20.1302, 40 CFR Part 190,<br>Appendix I to 10 CFR 50. Also, this change wi<br>reliability of effluent dose or alarm setpoint call<br>change implements a Corrective Action per CR | achment K<br>seous Efflu<br>change mer<br>pathways.<br>lioactive ef<br>10 CFR 50<br>Il not impa<br>culation. T<br>03-06281- | Table 4.11-2 to<br>ent Pathways is<br>ely prevents<br>Based on the<br>fluent control<br>0.36a, and<br>ct the accuracy or<br>this procedure<br>01. |
| 8.2.21 <u>Change (2</u> )   | 1) of BV-1 and 2 ODCM (Effective November 20  | <u>004)</u>   |   |
| 8.2.21.1 A de               | scription of the changes implemented with this re-  | evision are   | as follows:   |
| 8.2.21.1.1                  | Procedure 1/2-ODC-1.01, Rev 4, Procedure 1/2<br>Procedure 1/2-ODC-3.03, Rev 4: Changed own<br>Radiation Protection Section to the Nuclear Env<br>Section per CR 05-01169-14, CR 05-01169-15   | -ODC-2.01<br>ership of pr<br>vironmental<br>and CR 05-  | <u>, Rev 3 and</u><br>rocedures from the<br>& Chemistry<br>-01169-21.   |
| 8.2.21.1.2                  | Procedure 1/2-ODC-2.01, Rev 3: Changed Atta<br>volume of Liquid Waste Drain Tanks (2LWS-T<br>gal/tank to 10,000 gal/tank.   | chment D t<br>K21A/21B  | o correct the<br>) from 7,500   |
| 8.2.21.1.3                  | Procedure 1/2-ODC-3.03, Rev 4: Changed Attaincreased flexibility in Mode restraints that is de LAR 1A-321/2A 193 and CR 03-09288-19.  | chment C to<br>escribed in  | o implement the   |
| 8.2.21.1.4                  | Procedure 1/2-ODC-3.03, Rev 4: Corrected a ty<br>Attachment O, Control 3.11.2.5 per CR03-1172<br>word in Action (a) was changed from "nad" to "   | pographica<br>6-01. Speci<br>'and''.  | l error in<br>ifically, the final   |
| 8.2.21.1.5                  | <u>Procedure 1/2-ODC-3.03, Rev 4</u> : Revised Attac<br>4.3-13) to correct a typographical error per CR0<br>the Asset Number for the Vacuum Gauge used f<br>flow (from the Alternate Sampling Device) was<br>to [PI-1GW-135].   | hment F, (7<br>4-01643-0)<br>for measure<br>changed fr  | Table 3.3-13 and1. Specifically,ement of sampleom [PI-1GW-13]   |
| 8.2.21.1.6                  | Procedure 1/2-ODC-3.03, Rev 4: Revised Attac<br>4.3-13) per CR04-02275-01. Specifically, clarif<br>indicate that the "Sampler Flow Rate Monitors a<br>"Particulate and Iodine Sampling".  | hment F, (7<br>fication was<br>are the devi   | Fable 3.3-13 and         s provided to         ces used for   |
| 8.2.21.1.7                  | Procedure 1/2-ODC-3.03, Rev 4: Revised Attack<br>ACTION a, to add clarification that requires spe<br>Part 20 EC's when the individual tank limits are   | hment J, Co<br>cific calcul<br>exceeded.  | ontrol 3.11.1.4,<br>ation of 10 CFR   |

| Beaver Valley Power Station   |   | Procedure Num  | $\frac{1}{2} - 0 D C - 1 0 1$  |
|---|---|--|--|
| Title:  |   | Unit:  | Level Of Use:  |
| ODCM: Index. Matrix and History of ODCM Changes   | ŀ   | 1/2<br>Revision:   | General Skill Reference<br>Page Number:  |
|   |   | 16   | 49 of 98   |
| 8.2.21.2 The justifications used for change (21) of th  | he ODCM   | are as follo   | ows:   |
| <ul> <li>8.2.21.2.1 Procedure 1/2-ODC-1.01, Rev 4, Procedure 1/2-ODC-3.03, Rev 4: Char from Radiation Protection to Nuclear considered a procedure correction. SI RETS, REMP and ODCM responsibil changes will maintain the level of rad 10 CFR 20.1302, 40 CFR Part 190, 10 10 CFR 50. Also, the changes will not effluent dose or alarm setpoint calcula implement Corrective Actions per CR CR 05-01169-21.</li> </ul> | cedure 1/2-<br>anging own<br>Environme<br><u>INCE</u> the c<br>lities to a d<br>lioactive eff<br>0 CFR 50.3<br>ot impact th<br>ation. The<br>8 05-01169 | ODC-2.01<br>ership of t<br>ental & Ch<br>hanges me<br>lifferent m<br>fluent cont<br>66a, and A<br>he accuracy<br>procedure<br>-14, CR 05 | <u>, Rev 3 and</u><br>hese procedures<br>emistry is<br>erely transfers<br>anager, <u>THEN</u> the<br>trol required by<br>ppendix I to<br>y or reliability of<br>changes<br>5-01169-15, and |
| 8.2.21.2.2 <u>Procedure 1/2-ODC-2.01, Rev 3:</u> Cha<br>Waste Tank is considered a procedure<br>typographical error on the Attachment<br>tank volume that is used in effluent re<br>determinations. Therefore, this chang<br>effluent control required by 10 CFR 2<br>10 CFR 50.36a, and Appendix I to 10<br>impact the accuracy or reliability of ef<br>calculation.   | anging the vector<br>correction<br>it, <u>THEN</u> it<br>clease calcu-<br>ge will main<br>20.1302, 40<br>0 CFR 50. A<br>ffluent dose                    | volume of<br>b. <u>SINCE</u><br>does not i<br>ilations and<br>ntain the le<br>CFR Part<br>Also, this o<br>e or alarm                     | the Unit 2 Liquid<br>this was a<br>mpact the actual<br>d offsite dose<br>evel of radioactive<br>190,<br>change will not<br>setpoint  |
| 8.2.21.2.3 <u>Procedure 1/2-ODC-3.03, Rev 4:</u> Char<br>increased flexibility in Mode restraints<br>is considered a simple change. <u>SINCH</u><br>provided in the Technical Specificatio<br>the level of radioactive effluent contro<br>40 CFR Part 190, 10 CFR 50.36a, and<br>change will not impact the accuracy of<br>setpoint calculation. This procedure c<br>per CR 03-09288-19.                                  | nging Atta<br>(describe<br><u>E</u> the chang<br>ons, <u>THEN</u><br>ol required<br>Appendix<br>or reliability<br>change imp                            | chment C<br>d in LAR<br>ge impleme<br>the chang<br>by 10 CFF<br>I to 10 CF<br>of effluer<br>lements a                                    | to implement the<br>1A-321/2A-193)<br>ents guidance<br>e will maintain<br>& 20.1302,<br>FR 50. Also, this<br>at dose or alarm<br>Corrective Action   |
| 8.2.21.2.4 <u>Procedure 1/2-ODC-3.03, Rev 4:</u> The<br>Control 3.11.2.5 is considered a proce-<br>change will maintain the level of radio<br>10 CFR 20.1302, 40 CFR Part 190, 10<br>10 CFR 50. Also, this change will not<br>effluent dose or alarm setpoint calcula<br>implements a Corrective Action per C   | typographi<br>edure correct<br>bactive effl<br>0 CFR 50.3<br>t impact the<br>ation. This<br>CR 03-1172  | ical error in<br>option. The<br>uent contro<br>6a, and Ap<br>e accuracy<br>procedure<br>6-01.  | n Attachment O,<br>refore, this<br>ol required by<br>opendix I to<br>or reliability of<br>change   |

| Beaver Valley Power Station |   | Procedure Num  | ber:<br>/2-ODC-1.01  |
|-----------------------------|---|--|--|
| Title:                      |   | Unit:  | Level Of Use:  |
|                             |   | 1/2<br>Revision:   | General Skill Reference  |
| ODCM: Index, Matrix         | and History of ODCM Changes   | 16   | 50 of 98   |
| 8.2.21.2.5<br>8.2.21.2.6    | <u>Procedure 1/2-ODC-3.03, Rev 4:</u> Correcting the Attachment F, (Table 3.3-13 and 4.3-13) is conscorrection. <u>SINCE</u> this change merely corrects change will maintain the level of radioactive eff 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50. 10 CFR 50. Also, this change will not impact the effluent dose or alarm setpoint calculation. Thi implements a Corrective Action per CR04-0164<br><u>Procedure 1/2-ODC-3.03, Rev 4:</u> Providing clar Flow Rate Monitors is considered a simple char to misinterpret which filter paper sampler (e.g.; the specification was referring to. <u>SINCE</u> no ch samplers used for effluent release calculations of <u>THEN</u> this change will maintain the level of radioactive distribution of the set of t | 16<br>e typograph<br>sidered a pri<br>an obvious<br>fluent contri<br>36a, and A<br>he accuracy<br>s procedure<br>13-01.<br>rification for<br>nge, becaus<br>moving fill<br>panges were<br>or offsite do<br>lioactive ef<br>10 CFR 50<br>ll not impa<br>culation. T<br>04-02275-0 | <u>50 of 98</u><br><u>50 of 98</u><br><u>serror, THEN</u> this<br>rol required by<br>ppendix I to<br>v or reliability of<br>e change<br>or the Sampler<br>e it was possible<br>ter or fixed filter)<br>e made to actual<br>ose determinations,<br>fluent control<br>0.36a, and<br>ct the accuracy or<br>his procedure<br>01. |
| 8.2.21.2.7                  | Procedure 1/2-ODC-3.03, Rev 4: Providing clar<br>calculation of 10 CFR Part 20 EC's (when the in<br>exceeded) is considered a simple change. Speci-<br>limits were derived from an assumed source-ter-<br>representative of the actual source term at time of<br>also ensures that a "Special Report" is submitted<br>Part 20 EC limits are actually exceeded (i.e.; wh<br>sample analysis) at the nearest surface water sup<br>water supply in the unrestricted area. Per Calcu-<br>No. ERS-ATL-95-007 <sup>(3.2.3.9)</sup> , the nearest surface<br>nearest potable water supply are considered to b<br>Midland Water Treatment Facility. <u>SINCE</u> no c<br>bases for the tank activity limits, <u>THEN</u> this cha<br>of radioactive effluent control required by 10 CI<br>190, 10 CFR 50.36a, and Appendix I to 10 CFR<br>not impact the accuracy or reliability of effluent<br>calculation.  | ification th<br>ndividual ta<br>fically, the<br>m and may<br>of sample.<br>d only when<br>en calculat<br>oply and the<br>lation Pack<br>water sup<br>be the entran<br>changes we<br>inge will m<br>FR 20.1302<br>50. Also,<br>dose or ala  | at requires<br>ank limits are<br>individual tank<br>not be<br>This clarification<br>in the 10 CFR<br>red using actual<br>e nearest potable<br>tage<br>ply and the<br>nace to the<br>re made to the<br>aintain the level<br>a, 40 CFR Part<br>this change will<br>arm setpoint  |

| Beaver  | Valley Power Station  | Procedure Nun  | nber:<br>/2-ODC-1.01   |
|---|---|--|--|
| Title:  |   | Unit:  | Level Of Use:<br>General Skill Reference   |
| ODCM: Index, Matrix   | and History of ODCM Changes   | Revision:  | Page Number:<br>51 of 98   |
| 8 2 22 Change (2)   | 2) of BV 1 and 2 ODCM (Effective August 2006  | <u>10</u>  |  |
| 0.2.22 <u>Change (2.</u>  | 2) of BV-1 and 2 ODCWI (Encenve August 2000   | <u>, , , , , , , , , , , , , , , , , , , </u>  |  |
| 8.2.22.1 A de   | scription of the changes implemented with this re-  | evision are  | as follows:  |
| <ul> <li>8.2.22.1.1 Procedure 1/2-ODC-2.01, Rev 4: Incorporated Improved Technical Specification Reference changes from T.S. 6.8.6 to T.S. 5.5.2, per CR 05-03306. Revised the alarm setpoints of [RM-1RM-100] and [RM-1DA-100] via vendor calculation Package No. 8700-UR(B)-223. These changes reflect the Extended Power Uprate (EPU) at Unit 1 per ECP-04-0440, Unit 1 TS Amendment No. 275 and CR 06-04908-03. Updated the figure of Liquid Effluent Release Points (Attachment D, Figure 1.4-3) to incorporate a modified version of Plant Drawing No. 8700-RM-27F per CR 05-03854-01.</li> </ul> |   |  |  |
| 8.2.22.1.2  | Procedure 1/2-ODC-2.02, Rev 2: Changed own<br>Radiation Protection Section to the Nuclear Env<br>Section per CR 05-01169-16. Incorporated a "s<br>range noble gas effluent monitor alarm setpoint<br>vendor calculation Package No. 8700-UR(B)-22<br>Extended Power Uprate (EPU) at Unit 1 per EC<br>Amendment No. 275 and CR 06-04908-04.  | ership of p<br>vironmenta<br>≤" designat<br>s to meet th<br>23. These of<br>P-04-0440  | rocedure from the<br>l & Chemistry<br>ion for all low<br>he provisions of<br>changes reflect the<br>, Unit 1 TS  |
| 8.2.22.1.3 <u>Procedure 1/2-ODC-3.03, Rev 5</u> : Revised the alarm setpoints of the mid<br>range and high range noble gas effluent monitors via vendor calculation<br>Package No. 8700-UR(B)-223. These changes reflect the Extended Power<br>Uprate (EPU) at Unit 1 per ECP-04-0440, Unit 1 TS Amendment No. 275<br>and CR 06-04908-03.   |   |  | nts of the mid<br>or calculation<br>Extended Power<br>ndment No. 275   |
| 8.2.22.2 The j  | ustifications used for change (22) of the ODCM  | are as follo   | ows:   |
| 8.2.22.2.1  | Procedure 1/2-ODC-2.01, Rev 4: Updating the a<br>of liquid effluent release points are considered p<br>because they merely update the ODCM to agree<br>documents that were implemented with TS Ame<br>change merely updates the ODCM, <u>THEN</u> the c<br>of radioactive effluent control required by 10 CP<br>Part 190, 10 CFR 50.36a, and Appendix I to 10<br>will not impact the accuracy or reliability of effl<br>calculation. <u>SINCE</u> PORC review & acceptance<br>1/2-ADM-1640, <u>THEN</u> the review is considered<br>Applicability Determination RAD-06-03831, R.<br>RAD-06-05070. As previously noted, these pro<br>Corrective Actions per CR 06-04908-03, and Cl | alarm setpo<br>procedure c<br>e with previ<br>endments.<br>change will<br>FR 20.1302<br>CFR 50. A<br>luent dose c<br>e is require<br>t complete<br>AD-06-016<br>cedure cha<br>R 05-03854 | ints and the figure<br>orrections,<br>ously approved<br><u>SINCE</u> the<br>maintain the level<br>2, 40 CFR<br>Also, the change<br>or alarm setpoint<br>d per TS 6.14 and<br>per Regulatory<br>58 and<br>nges implement<br>I-01. |

| Beaver                  | r Valley Power Station   | Procedure Nun<br>1       | nber:<br>/2-ODC-1.01                              |  |
|-------------------------|--|--------------------------|---|--|
| Title:                  |  | Unit:                    | Level Of Use:                                     |  |
| ODCM· Index Matrix      | and History of ODCM Changes  | 1/2<br>Revision:         | Page Number:                                      |  |
|                         |  | 16                       | 52 of 98  |  |
| 8.2.22.2.2              | Procedure 1/2-ODC-2.02, Rev 2: Changing the  | ownership                | of the procedure                                  |  |
|                         | and updating the alarm setpoints with a "<" design and updating the alarm setpoints with a set of the set of t | gnation are              | considered  |  |
|                         | procedure corrections, because they merely upo   | ate the OD               | th TS   |  |
|                         | Amendments SINCE the change merely undat   | es the OD(               | M THEN the  |  |
|                         | change will maintain the level of radioactive ef   | fluent contr             | ol required by                                    |  |
|                         | 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.  | 36a, and A               | ppendix I to                                      |  |
| · .                     | 10 CFR 50. Also, the change will not impact the  | ne accuracy              | or reliability of                                 |  |
|                         | effluent dose or alarm setpoint calculation. SIN   | ICE PORC                 | review &  |  |
|                         | acceptance is required per TS 6.14 & 1/2-ADM   | -1640, <u>THI</u>        | EN the review is                                  |  |
|                         | considered complete per Regulatory Applicabil  | 1ty<br>658 Ac.m.         | arrianalu natad                                   |  |
|                         | betermination KAD-00-03831 and KAD-00-01<br>these procedure changes implement Corrective   | Actions ne               | $r CR 05_01160_16$                                |  |
|                         | and CR 06-04908-04   | Actions pe               | CK 05-01109-10                                    |  |
|                         |  |                          |   |  |
| 8.2.22.2.3              | Procedure 1/2-ODC-3.03, Rev 5: Updating the  | alarm setpc              | ints is considered                                |  |
|                         | a procedure correction, because this merely upd  | lates the OI             | DCM to agree with                                 |  |
|                         | previously approved documents that were imple  | emented wi               | th TS   |  |
|                         | Amendments. <u>SINCE</u> the change merely updat   | es the ODC               | M, <u>THEN</u> the                                |  |
|                         | 10 CEP 20 1302 40 CEP Part 100 10 CEP 50   | 36a and A                | or required by                                    |  |
|                         | 10 CFK 20.1302, 40 CFK Part 190, 10 CFK 50.36a, and Appendix 1 to<br>10 CFP 50. Also, the change will not impact the accuracy or reliability of  |                          |   |  |
|                         | effluent dose or alarm setpoint calculation SINCE PORC review &  |                          |   |  |
|                         | acceptance is required per TS 6.14 & 1/2-ADM   | -1640, THI               | EN the review is                                  |  |
|                         | considered complete per Regulatory Applicability   |                          |   |  |
|                         | Determination RAD-06-03831 and RAD-06-01   | 658. As pr               | eviously noted,                                   |  |
|                         | these procedure changes implement Corrective   | Actions per              | ſ   |  |
|                         | CR 06-04908-03.  |                          |   |  |
| 8.2.23 <u>Change (2</u> | 3) of BV-1 and 2 ODCM (Effective December 20   | <u>)06)</u>              |   |  |
| 8.2.23.1 A de           | scription of the changes implemented with this re  | evision are              | as follows:                                       |  |
| 8 2 23 1 1              | Procedure 1/2-ODC-101 Rev 5: Changed Atta  | chment C '               | Table F <sup>.</sup> 3a of the                    |  |
| 0.2.25.1.1              | procedure matrix to add Form 1/2-ENV-01.04.  | F01 as docu              | mentation for                                     |  |
|                         | performing a Channel Functional Test of the Ur   | it 1 Primar              | y and Alternate                                   |  |
| -                       | Gaseous Effluent Sampler Flowrate Measuring  | Devices per              | r CR 04-09895.                                    |  |
|                         | Attachment C Tables were also changed to deno  | ote transitio            | n of ODCM   |  |
|                         | Channel Checks from Operations (L5 Logs) to l  | Nuclear En               | vironmental &                                     |  |
|                         | Chemistry (Form 1/2-ADM-0606.F01 & F02) p  | er CR 05-0               | 1422. Also, per                                   |  |
|                         | Improved Technical Specifications (ITS), change  | ged Attachn              | nent C Tables to                                  |  |
|                         | CHANNEL OPERATIONAL TEST (COT) and   | LIUNAL II<br>dadded ster | $c_{01}$ is $d_{01}$                              |  |
|                         | requirements for ODCM changes record review  | and retenti              | $p \rightarrow 1.2$ to recall $p \rightarrow 1.2$ |  |
|                         | Revised step 5.3 to require ODCM changes be r  | eviewed an               | d accepted by                                     |  |
|                         | PORC per CR 05-03306.  |                          | 1   |  |
|                         | •  |                          |   |  |

| Beave               | er Valley Power Station  | Procedure Nun<br>1   | nber:<br>/2-ODC-1.01   |  |
|---------------------|--|--|--|--|
| Title:              |  | Unit:<br>1/2.  | Level Of Use:<br>General Skill Reference   |  |
| ODCM: Index, Matrix | x and History of ODCM Changes  | Revision:<br>16  | Page Number:<br>53 of 98   |  |
| 8.2.23.1.2          | <u>Procedure 1/2-ODC-2.01, Rev 5</u> : Revised the alarm setpoints of [2SWS-RQ101] via vendor calculation Package No. 10080-UR(B)-508. These changes reflect the Extended Power Uprate (EPU) at Unit 2 per ECP-04-0441, Unit 2 TS Amendment No. 156 and CR 06-6476-01.   |  |  |  |
| 8.2.23.1.3          | <u>Procedure 1/2-ODC-2.03, Rev 1</u> : Updated the existing REMP sampling locations with the most recent survey results that were performed using a Global Positioning System per CR 05-01390-02.  |  |  |  |
| 8.2.23.1.4          | <u>Procedure 1/2-ODC-3.02, Rev 2</u> : Changed own<br>Radiation Protection Section to the Nuclear En-<br>Section per CR 05-01169-20.   | ership of p<br>vironmenta  | rocedure from the<br>l & Chemistry   |  |
| 8.2.23.1.5          | 8.2.23.1.5 Procedure 1/2-ODC-2.03, Rev 1, Procedure 1/2-ODC-2.04, Rev 1 and<br>Procedure 1/2-ODC-3.01, Rev 1: Changed ownership of procedures from the<br>Radiation Protection Section to the Nuclear Environmental & Chemistry<br>Section per CR 05-01169-17, CR 05-01169-18 and CR 06-01169-19.  |  |  |  |
| 8.2.23.2 The        | justifications used for change (23) of the ODCM  | are as follo   | ows:   |  |
| 8.2.23.2.1          | Procedure 1/2-ODC-1.01, Rev 5: Changing Att<br>procedure matrix to add Form 1/2-ENV-01.04.1<br>performing the Channel Functional Test of the<br>Gaseous Effluent Sampler Flowrate Measuring<br>procedure correction, because no Acceptance C<br>Transition of ODCM Channel Checks from Op<br>Environmental & Chemistry (Form 1/2-ADM-C<br>considered a procedure correction, because the<br>altered. <u>SINCE</u> these changes merely correct th<br>the changes will maintain the level of radioactiv<br>by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR<br>10 CFR 50. Also, the change will not impact th<br>effluent dose or alarm setpoint calculation. As<br>procedure changes implement Corrective Action<br>CR 05-01422 and CR 05-03306. | achment C,<br>F01 as docu<br>Unit 1 Prim<br>Devices is<br>riteria was<br>erations (L:<br>0606.F01 &<br>no Accepta<br>the procedur<br>we effluent of<br>50.36a, and<br>the accuracy<br>previously is<br>ns per CR ( | Table F: 3a of the<br>imentation for<br>hary and Alternate<br>considered a<br>altered.<br>5 Logs) to Nuclear<br>F02) is also<br>nce Criteria was<br>e matrix, <u>THEN</u><br>control required<br>Appendix I to<br>or reliability of<br>noted, these<br>04-09895, |  |

| Bea                             | ver Valley Power Station  | Procedure Nun<br>1   | ber:<br>/2-ODC-1.01   |  |  |  |
|---------------------------------|---|--|---|--|--|--|
| Title:                          |   | Unit:  | Level Of Use:   |  |  |  |
|                                 | ative and History of ODCM Changes   | 1/2<br>Revision:   | General Skill Reference<br>Page Number:   |  |  |  |
|                                 |   | 16   | 54 of 98  |  |  |  |
| 8.2.23.2.                       | Procedure 1/2-ODC-2.01, Rev 5: Updating the a procedure correction, because this merely update previously approved documents that were imple Amendments. <u>SINCE</u> the change merely update change will maintain the level of radioactive eff. 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50. 10CFR 50. Also, the change will not impact the effluent dose or alarm setpoint calculation. <u>SIN</u> acceptance is required per TS 6.14 & 1/2-ADM considered complete per Regulatory Applicabil Determination RAD-06-04585. As previously per CR is a proceeded of the effluent for the effluent Corrective Actions per CR is a previously provide the effluent for the effluent fo | alarm setpo<br>lates the Ol<br>emented with<br>tes the ODO<br>fluent contri<br>36a, and A<br>e accuracy<br><u>ICE PORC<br/>-1640, THI</u><br>ity<br>noted, these<br>06-6476-01 | bints is considered<br>DCM to agree with<br>th TS<br>CM, <u>THEN</u> the<br>rol required by<br>ppendix I to<br>or reliability of<br>review &<br><u>EN</u> the review is<br>e procedure  |  |  |  |
| 8.2.23.2.                       | Procedure 1/2-ODC-2.03, Rev 1: Updating the locations with the most recent survey results that Global Positioning System is considered a procedure provides more accurate distances to exist locations, <u>THEN</u> the change will maintain the location required by 10 CFR 20.1302, 40 CFR P Appendix I to 10 CFR 50. Also, the change will reliability of effluent dose or alarm setpoint calcor change implements Corrective Actions per CR 6 CR 05-01390-02.   | existing RE<br>at were perf<br>edure corre<br>sting REMH<br>evel of radi<br>art 190, 10<br>Il not impac<br>culation. T<br>04-00149-1   | EMP sampling<br>Formed using a<br>ction. <u>SINCE</u> the<br>P sampling<br>oactive effluent<br>CFR 50.36a, and<br>ct the accuracy or<br>he procedure<br>2 and                           |  |  |  |
| 8.2.23.2.4                      | <ul> <li><u>Procedure 1/2-ODC-2.03, Rev 1, Procedure 1/2</u></li> <li><u>Procedure 1/2-ODC-3.01, Rev 1</u>: Changing own from Radiation Protection to Nuclear Environm considered a procedure correction. <u>SINCE</u> the or RETS, REMP and ODCM responsibilities to a or change will maintain the level of radioactive eff 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50. 10 CFR 50. Also, the change will not impact the effluent dose or alarm setpoint calculation. The implement Corrective Actions per CR 05-01169 CR 06-01169-19.</li> </ul>   | -ODC-2.04<br>nership of t<br>ental & Ch<br>changes me<br>different ma<br>fuent contr<br>36a, and Ap<br>e accuracy<br>se procedum<br>0-17, CR 05                                | <u>, Rev 1 and</u><br>hese procedures<br>emistry is<br>rely transfers<br>anager, <u>THEN</u> the<br>ol required by<br>opendix I to<br>or reliability of<br>re changes<br>5-01169-18 and |  |  |  |
| 8.2.24 <u>Chang</u><br>8.2.24.1 | 8.2.24 <u>Change (24) of BV-1 and 2 ODCM (Effective May 2007)</u>   |  |   |  |  |  |
| 8.2.24.1.1                      | Procedure 1/2-ODC-3.03, Rev 6: Incorporated I<br>Specifications (ITS). This includes transfer of pr<br>BV-2 Noble Gas Effluent Steam Monitors [2MS<br>[2MSS-RQ101B] and [2MSS-RQ101C] from th<br>ODCM procedure 1/2-ODC-3.03 (Attachment I<br>Reference CR 05-03306.  | mproved T<br>rogrammati<br>SS-RQ101A<br>e Technica<br>D Tables 3.2   | echnical<br>ic controls for<br>A],<br>I Specifications to<br>3-6 and 4.3-3).  |  |  |  |

| Beave              | er Valley Power Station   | Procedure Number:<br>1/2-ODC-1.01   |  |
|--------------------|---|---|--|
| Title:             |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Referen   |
| ODCM: Index, Matri | x and History of ODCM Changes   | Revision:   | Page Number:<br>55 of 98   |
| 8.2.24.1.2         | <u>Procedure 1/2-ODC-3.03, Rev 6:</u> Revised Atta<br>liquid storage tank activity limits via Calculati<br>No. ERS-ATL-95-007, R2. Reference SAP Or   | chment J to<br>on Package<br>der 200197   | o update the outside<br>646-0110.  |
| 8.2.24.1.3         | Procedure 1/2-ODC-3.03, Rev 6: Revised Atta<br>Applicability for tank level indicating devices<br>Reference CR 06-04944.  | chment E to<br>is during ac   | o clarify that the<br>lditions to the tank.  |
| 8.2.24.1.4         | Procedure 1/2-ODC-3.03, Rev 6: Revised Atta<br>an alternate Action when the primary Flow Rat<br>[FT-1CW-101-1] is not OPERABLE. The alte<br>measurements (as described in 1MSP-31.06-I)<br>flow rate during liquid effluent releases. Refere  | chment E T<br>te Measurer<br>ernate Actic<br>to determinence SAP C  | Table 3.3-12 to addment Deviceon (25) uses localne a total dilutionOrder 200240681.  |
| 8.2.24.1.5         | Procedure 1/2-ODC-3.03, Rev 6: Revised Atta<br>4.3-13 to clarify the Functional Location of the<br>for the BV-2 gaseous effluent release pathways<br>was changed to refer to Functional Location [2<br>[2HVS-FIT101], [2RMQ-FIT301-1] instead of<br>[2HVL-FIT112-1] instead of [2HVL-FIT112],<br>instead of [2RMQ-FIT303]. Reference CR07-1<br>Order 200247228-0410.  | chment F T<br>Sampler F<br>S. Specifica<br>HVS-FIT10<br>[2RMQ-F]<br>and [2RM(<br>2924 and S   | Tables 3.3-13 andlow Rate Monitorsally, the procedure01-1] instead of(T301],Q-FIT303-1]SAP   |
| 8.2.24.2 The       | e justifications used for change (24) of the ODCM   | are as follo  | ows:   |
| 8.2.24.2.1         | Procedure 1/2-ODC-3.03, Rev 6: Incorporating<br>Specifications (ITS) is considered a simple cha<br>performed in accordance with the guidance pro<br>Specification Amendments No. 278/161. The I<br>of programmatic controls for BV-2 Noble Gas<br>[2MSS-RQ101A], [2MSS-RQ101B] and [2MS<br>Technical Specifications to ODCM procedure<br>Tables 3.3-6 and 4.3-3. <u>SINCE</u> the change was<br>with the TS Amendments, <u>THEN</u> the change w<br>radioactive effluent control required by 10 CFF<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>impact the accuracy or reliability of effluent do<br>calculation. PORC review and acceptance of th<br>May 2007. The procedure change implements<br>CR 05-03306. | g the Improvinge, because<br>wided in Un<br>TS upgrade<br>Effluent Sta<br>S-RQ101C<br>1/2-ODC-3.<br>performed<br>ill maintair<br>20.1302, 4<br>Also, the cose or alarm<br>his change of<br>Corrective | ved Technical<br>se this was<br>nit 1/2 Technical<br>e includes transfer<br>eam Monitors<br>I from the<br>.03 (Attachment D<br>in accordance<br>n the level of<br>40 CFR Part 190,<br>change will not<br>setpoint<br>was completed in<br>Actions per |

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| Beaver Valley Power Station |               | Procedure Number:<br>1/2-ODC-1.01   |   |   |
|-----------------------------|---------------|---|---|---|
| Title:                      |               | <u></u>   | Unit:   | Level Of Use:<br>General Skill Reference  |
| ODCM:                       | Index, Matrix | and History of ODCM Changes   | Revision:<br>16   | Page Number:<br>56 of 98  |
| -                           | 8.2.24.2.2    | Procedure 1/2-ODC-3.03, Rev 6: Revising Atta<br>outside liquid storage tank activity limits via Ca<br>No. ERS-ATL-95-007, R2 is considered a simp<br>change merely implements updated release volu-<br>other station documents. <u>SINCE</u> the change was<br>with the guidance provided in Standard Review<br>NUREG-0800, <u>THEN</u> the change will maintain<br>effluent control required by 10 CFR 20.1302, 4<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>impact the accuracy or reliability of effluent do<br>calculation. PORC review and acceptance of th<br>May 2007. The procedure change implements<br>Order 200197646-0110.             | ichment J to<br>alculation F<br>ole change,<br>umes and so<br>as performe<br>Plan 15.7.<br>In the level c<br>0 CFR Part<br>Also, the c<br>se or alarm<br>his change v<br>Corrective | o update the<br>Package<br>because this<br>ource-terms from<br>ed in accordance<br>3 of<br>of radioactive<br>190,<br>change will not<br>setpoint<br>was completed in<br>Actions per SAP       |
|                             | 8.2.24.2.3    | Procedure 1/2-ODC-3.03, Rev 6: Revising Atta<br>Applicability for tank level indicating devices i<br>is considered a simple change, because this men<br>Applicability of the instrument. <u>SINCE</u> this cha-<br>clarification of existing Applicability, <u>THEN</u> th<br>level of radioactive effluent control required by<br>Part 190, 10 CFR 50.36a, and Appendix I to 10<br>will not impact the accuracy or reliability of effi-<br>calculation. PORC review and acceptance of the<br>May 2007. The procedure change implements of<br>CR 06-04944-01.   | chment E t<br>s during ad<br>rely clarifie<br>ange merely<br>e change w<br>10 CFR 20<br>CFR 50. A<br>luent dose<br>nis change v<br>Corrective                                       | o indicate that the<br>ditions to the tank<br>s the existing<br>y provides<br>vill maintain the<br>0.1302, 40 CFR<br>Also, the change<br>or alarm setpoint<br>was completed in<br>Actions per |
|                             | 8.2.24.2.4    | Procedure 1/2-ODC-3.03, Rev 6: Revising Atta<br>add an alternate Action when the primary Flow<br>[FT-1CW-101-1] is not OPERABLE is conside<br>use of an alternate Action does not modify the i<br>when the primary and alternate flow rate instrum<br><u>SINCE</u> this change merely provides an alternate<br>dilution flow rate during liquid releases, <u>THEN</u><br>level of radioactive effluent control required by<br>Part 190, 10 CFR 50.36a, and Appendix I to 10<br>will not impact the accuracy or reliability of effi-<br>calculation. PORC review and acceptance of the<br>May 2007. The procedure change implements of<br>Order 200240681. | chment E T<br>Rate Meas<br>red a simpl<br>ntent of est<br>nents are no<br>e means of e<br>the change<br>10 CFR 20<br>CFR 50. A<br>luent dose o<br>is change v                       | Table 3.3-12 tourement Devicee change, becauseimating flow rateot OPERABLE.estimatingwill maintain the0.1302, 40 CFRAlso, the changeor alarm setpointvas completed inActions per SAP          |
|                             |               |   |   |   |

| Beaver Valley Power Station   |  | ıber:<br>/2-ODC-1.01  |  |  |
|---|--|---|--|--|
| Tide:   | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference  |  |  |
| ODCM: Index, Matrix and History of ODCM Changes   | Revision:<br>16  | Page Number:<br>57 of 98  |  |  |
| <ul> <li>8.2.24.2.5 <u>Procedure 1/2-ODC-3.03, Rev 6:</u> Revising Attachment F Tables 3.3-13 and 4.3-13 to clarify the Functional Location of the Sampler Flow Rate Monitors for the BV-2 gaseous effluent release pathways is considered a simple change, because this merely clarifies the actual Functional Location in use. <u>SINCE</u> this change merely updates a location title, <u>THEN</u> the change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. Also, the change will not impact the accuracy or reliability of effluent dose or alarm setpoint calculation. PORC review and acceptance of this change was completed in May 2007. The procedure change implements Corrective Actions per CR 07-12924 and SAP Order 200247228-0410</li> </ul> |  |   |  |  |
| 8.2.25 Change (25) of BV-1 and 2 ODCM (Effective May 2009)  |  |   |  |  |
| 8.2.25.1 A description of the changes implemented with this re  | evision are  | as follows:   |  |  |
| 8.2.25.1.1 <u>Procedure 1/2-ODC-1.01 Rev 7</u> : Removed the r and acceptance of changes made to the ODCM.  | equirement   | for PORC review   |  |  |
| <ul> <li>8.2.25.1.2 Procedure 1/2-ODC-1.01, Rev 7: Added MSP a EPP-EAL area and process monitors to Attachm Specifically, this includes area monitors RM-1R RM-1RM-203, RM-1RM-210, RM-1RM-212, 2 2RMP-RQ210, 2RMR-RQ201, 2RMR-RQ202E 2RMS-RQ223, and process monitors RM-1CH-RM-1RW-100A, RM-1RW-100B, RM-1RW-100 RM-1VS-103A, RM-1VS-103B, 2CHS-RQ101, 2SWS-RQ100A, 2SWS-RQ100B, 2SWS-RQ100 2SWS-RQ101, 2SWS-RQ102, 2RMF-RQ301A, Reference CR09-53803-13.</li> </ul>  | nd OST ref<br>tent C, Tab<br>2M-201, RM<br>2RMP-RQ2<br>3, 2RMR-R<br>101A, RM<br>101A, RM<br>10C, RM-11<br>A, 2CHS-R<br>0C, 2SWS<br>, 2RMF-RQ | erences for<br>le F: 1a and 1b.<br>A-1RM-202,<br>04,<br>Q203,<br>-1CH-101B,<br>RW-100D,<br>Q101B,<br>-RQ100D,<br>Q301B. |  |  |
| 8.2.25.1.3 <u>Procedure 1/2-ODC-1.01, Rev 7:</u> Revised Attack<br>procedure matrix to remove obsolete forms and<br>Channel Checks. Specifically, Form 1/2-ADM-<br>Form 1/2-ADM-0606.F02, Form 1/2-HPP-3.07.<br>procedures 1/2-HPP-3.06.005, 1/2-HPP-3.06.00<br>removed from the procedure matrix. Reference<br>and 0390.   | hment C Ta<br>procedures<br>0606.F01,<br>003.F01 an<br>6 & 1/2-HF<br>SAP Order   | ables of the<br>used for ODCM<br>d<br>P-3.06.012 were<br>200257692-0360   |  |  |

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| Beaver Valley Power Station |  | Procedure Num<br>1   | nber:<br>/2-ODC-1.01   |   |
|-----------------------------|--|--|--|---|
| Title:                      |  |  | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference  |
| ODCM:                       | Index, Matrix  | and History of ODCM Changes  | Revision:<br>16  | Page Number:<br>58 of 98  |
|                             | <ul> <li>8.2.25.1.4 Procedure 1/2-ODC-2.01, Rev 6: Added the Coolant Recovery Tanks [1BR-TK-4A/4B] as Liquid Waste Tanks to Section 8.4 description and Attachment D Figures 1.4-1 and 1.4-2. Added a default 2-tank volume recirculation time of 45.7 hrs for the Coolant Recovery Tanks [1BR-TK-4A/4B] to Attachment B Table 1.2-1a. Added the Cesium Removal Ion Exchangers [1BR-I-1A/1B and 2BRS-IOE21A/21B] to Section 8.4 description and Attachment B Figures 1.4-1 and 1.4-2. Revised the recirculation times in Attachment B Table 1.2-1a and 1.2-1b to indicate the times for nominal tank volume and maximum tank volume. Reference CR 05-00004-15, CR 05-00004-17 and SAP Order 200197646-0010.</li> </ul>   |  |  |   |
|                             | <ul> <li>8.2.25.1.5 Procedure 1/2-ODC-2.01, Rev 6: Revised Attachment D Figure 1.4-3 to remove Sewage Treatment Plants (STP) Outfalls 113 and 203 due to retirement of the STP and to remove Outfall 501. Water is no longer discharged via these outfalls. Reference SAP Order 200197646-0660.</li> <li>8.2.25.1.6 Procedure 1/2-ODC-2.01, Rev 6: Revised section 8.1.1.1 to incorporate alarm setpoints for all possible detector combinations for [RM-1DA-100]. Specifically, due to obsolescence of the original Model 843-30 and 843-32 detectors that were previously installed in [RM-1DA-100], the vendor has upgraded them to Model 843-30R and 843-32R detectors, which include upgraded efficiency data as well. Reference SAP Order 200197646-0810.</li> </ul> |  |  | igure 1.4-3 to<br>203 due to<br>no longer<br>97646-0660.  |
|                             |  |  |  | o incorporate<br>RM-1DA-100].<br>3-30 and 843-32<br>the vendor has<br>which include<br>00197646-0810.   |
|                             | 8.2.25.1.7   | Procedure 1/2-ODC-3.03, Rev 7: Added EPP-E<br>monitors to Attachment D, Tables 3.3-6 and 4.3<br>includes area monitors RM-1RM-201, RM-1RM<br>RM-1RM-210, RM-1RM-212, 2RMP-RQ204, 2<br>2RMR-RQ201, 2RMR-RQ202B, 2RMR-RQ202<br>process monitors RM-1CH-101A, RM-1CH-10<br>RM-1RW-100B, RM-1RW-100C, RM-1RW-100<br>RM-1VS-103B, 2CHS-RQ101A, 2CHS-RQ101<br>2SWS-RQ100B, 2SWS-RQ100C, 2SWS-RQ100<br>2SWS-RQ102, 2RMF-RQ301A, 2RMF-RQ301<br>included adding EAL references to existing liqu<br>monitors provided in Attachment E and Attachm<br>Reference CR 09-53803-10. | AL area an<br>-3. Specifi<br>4-202, RM-<br>2RMP-RQ2<br>3, 2RMS-R<br>1B, RM-1R<br>0D, RM-1<br>B, 2SWS-H<br>0D, 2SWS-H | d process<br>cally, this<br>-1RM-203,<br>210,<br>.Q223, and<br>2W-100A,<br>VS-103A,<br>RQ100A,<br>-RQ101,<br>ditorial changes<br>cous radiation<br>pectively. |
|                             | 8.2.25.1.8   | <u>Procedure 1/2-ODC-3.03, Rev 7:</u> Added a define<br>Test and revised the definition for Channel Oper<br>these definitions have the same requirements and<br>equal. Reference SAP Order 200197646-0300 a  | ition for Ch<br>rational Tes<br>d, therefore<br>and CR 07-   | nannel Functional<br>st to indicate that<br>e, are considered<br>31083.   |

| Beaver   | r Valley Power Station  | Procedure Nun<br>1  | nber:<br>/2-ODC-1.01                     |  |
|--|---|---|--|--|
| Title:   |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference |  |
| ODCM: Index, Matrix  | and History of ODCM Changes   | Revision:<br>16   | Page Number:<br>59 of 98                 |  |
| 8.2.25.1.9   | <ul> <li>Procedure 1/2-ODC-3.03, Rev 7: Revised Attachment E Table 3.3-12 and<br/>Attachment F, Tables 3.3-13 &amp; 4.3-13 to provide added clarifications and to<br/>remove unnecessary information, as follows: (1) added the word "or" where<br/>it is missing from Attachment F, Table 3.3-13 &amp; 4.3-13, (2) removed grab<br/>samples from the list of alternates in Table 3.3-13 and 4.3-13, because a grab<br/>sample is an "action", not an "alternate", (3) added notations in Table 3.3-12<br/>and 3.3-13 to indicate that Condition Report generation and reporting in the<br/>Radioactive Effluent Release Report (per Control 3.3.3.9 Action b and<br/>3.3.3.10 Action b) do not apply when using an alternate to satisfy<br/>inoperability of the primary instrument beyond 30 days, and (4) removed<br/>surveillances for Preplanned Method of Monitoring (PMM) from<br/>Table 4.3-3, because surveillances only apply to instruments, not methods.<br/>Reference SAP Order 200247228-0450.</li> </ul> |   |  |  |
| 8.2.25.1.10  | <u>Procedure 1/2-ODC-3.03, Rev 7:</u> Revised Attachment E, Table 3.3-12, Table 4.3-12 and Action 25A to clarify the 1 <sup>st</sup> and 2 <sup>nd</sup> alternates to the flow rate measurement devices used for the cooling tower blowdown line. Specifically, 1 <sup>st</sup> alternate will use local measurements via 1MSP-31.06-I, and the 2 <sup>nd</sup> alternate will use the individual Units' devices. Reference SAP Order 200240681-0020.  |   |  |  |
| 8.2.25.2 The   | justifications used for change (25) of the ODCM   | are as follo  | ows:                                     |  |
| 8.2.25.2.1   | Procedure 1/2-ODC-1.01 Rev 7: Removed the rand acceptance of changes made to the ODCM requirement of ITS 5.5.1.   | equiremen<br>as it is no l  | t for PORC review<br>onger a             |  |
| <ul> <li>8.2.25.2.2 Procedure 1/2-ODC-1.01, Rev 7: Adding MSP and OST references for EPP-EAL area and process monitors to Attachment C, Table F: 1a and 1 does not remove or modify any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioac effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. Also, the change will no impact the accuracy or reliability of effluent dose or alarm setpoint calculation. PORC review and acceptance of this change was completed May 2007. This change implements Corrective Actions per CR 09-53803-13.</li> </ul> |   | eferences for<br>ole F: 1a and 1b<br>specified in<br>vel of radioactive<br>190,<br>hange will not<br>setpoint<br>was completed in<br>er |  |  |

| Beav              | er Valley Power Station  | Procedure Nur<br>1  | nber:<br>/2-ODC-1.01  |
|-------------------|--|---|---|
| Title:            |  | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference  |
| ODCM: Index, Matr | ix and History of ODCM Changes   | Revision:<br>16   | Page Number:<br>60 of 98  |
| 8.2.25.2.3        | Procedure 1/2-ODC-1.01, Rev 7: Revising Atta<br>procedure matrix to remove obsolete forms and<br>Channel Checks does not remove or modify an<br>specified in NUREG-1301. Therefore, this cha<br>radioactive effluent control required by 10 CFR<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>impact the accuracy or reliability of effluent do<br>calculation. PORC review and acceptance of th<br>May 2007. This change implements Corrective<br>Order 200257692-0360 and 0390.  | achment C<br>l procedure<br>y standard<br>inge will m<br>20.1302, 4<br>Also, the o<br>se or alarm<br>his change<br>e Actions po   | Tables of the<br>s used for ODCM<br>ODCM Controls<br>aintain the level of<br>40 CFR Part 190,<br>change will not<br>setpoint<br>was completed in<br>er SAP  |
| 8.2.25.2.4        | Procedure 1/2-ODC-2.01, Rev 6: Adding; (1) thas Liquid Waste Tanks, (2) adding a default 2-t time for the Coolant Recovery Tanks, (3) addine Exchangers, and (4) revising the recirculation to nominal tank volume and maximum tank volume any standard ODCM Controls specified in NUH change will maintain the level of radioactive ef 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50. 10 CFR 50. Also, the change will not impact the effluent dose or alarm setpoint calculation. PO this change was completed in May 2007. This Corrective Actions per CR05-00004-15, CR05-Order 200197646-0010. | the Coolant<br>ank volume<br>og the Cesiv<br>imes to indi-<br>ne does not<br>REG-1301.<br>fluent contri<br>36a, and A<br>ne accuracy<br>RC review<br>change imp<br>00004-17 a | Recovery Tanks<br>e recirculation<br>im Removal Ion<br>icate the times for<br>remove or modify<br>Therefore, this<br>rol required by<br>ppendix I to<br>or reliability of<br>and acceptance of<br>olements<br>and SAP |
| 8.2.25.2.5        | Procedure 1/2-ODC-2.01, Rev 6: Revising Atta<br>remove Sewage Treatment Plants (STP) Outfal<br>remove or modify any standard ODCM Contro<br>Therefore, this change will maintain the level o<br>required by 10 CFR 20.1302, 40 CFR Part 190,<br>Appendix I to 10 CFR 50. Also, the change wi<br>reliability of effluent dose or alarm setpoint cal<br>acceptance of this change was completed in Ma<br>implements Corrective Actions per SAP Order   | chment D I<br>ls 113 and 2<br>ls specified<br>f radioactiv<br>10 CFR 50<br>ll not impac<br>culation. P<br>y 2007. Th<br>200197646   | Figure 1.4-3 to<br>203 does not<br>in NUREG-1301.<br>we effluent control<br>0.36a, and<br>ct the accuracy or<br>ORC review and<br>his change<br>-0660.  |
| 8.2.25.2.6        | Procedure 1/2-ODC-2.01, Rev 6: Revising Sect<br>alarm setpoints for all possible detector combin<br>does not remove or modify any standard ODCM<br>NUREG-1301. Therefore, this change will mai<br>effluent control required by 10 CFR 20.1302, 44<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>impact the accuracy or reliability of effluent do<br>calculation. PORC review and acceptance of th<br>May 2007. This change implements Corrective<br>Order 200197646-0810.   | ion 8.1.1.1<br>ations for [<br>1 Controls :<br>ntain the le<br>0 CFR Part<br>Also, the c<br>se or alarm<br>is change v<br>Actions pe  | to incorporate<br>RM-1DA-100]<br>specified in<br>vel of radioactive<br>190,<br>hange will not<br>setpoint<br>vas completed in<br>er SAP   |

| Beaver Valley Power Station |               | Procedure Number:  |  |   |
|-----------------------------|---------------|--|--|---|
| Title:                      |               |  | Unit:  | Level Of Use:   |
|                             |               |  | 1/2  | General Skill Reference   |
| ODCM:                       | Index, Matrix | and History of ODCM Changes  | 16   | Page Number:<br>61 of 98  |
|                             | 8.2.25.2.7    | Procedure 1/2-ODC-3.03, Rev 7: Adding EPP-<br>monitors to Attachment D, Tables 3.3-6 and 4.3<br>EAL references to existing liquid and gaseous in<br>Attachment E and Attachment F) does not remo<br>ODCM Controls specified in NUREG-1301. T<br>maintain the level of radioactive effluent control<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.<br>10 CFR 50. Also, the change will not impact the<br>effluent dose or alarm setpoint calculation. PO<br>this change was completed in May 2007. This<br>Corrective Actions per CR 09-53803-10.<br>Procedure 1/2-ODC-3.03, Rev 7: Adding a defi<br>Functional Test and revising the definition for C<br>indicate that these definitions have the same rec-<br>equal) does not remove or modify any standard<br>NUREG-1301. Therefore, this change will mai<br>effluent control required by 10 CFR 20.1302, 44<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>impact the accuracy or reliability of effluent do | EAL area a<br>B-3 (and ad<br>radiation m<br>ove or mod<br>herefore, th<br>ol required<br>36a, and A<br>he accuracy<br>RC review<br>change imp<br>nition for C<br>Channel Op<br>quirements<br>ODCM Co<br>ntain the le<br>0 CFR Part<br>Also, the c<br>se or alarm | ind process<br>ding<br>onitors<br>ify any standard<br>his change will<br>by<br>ppendix I to<br>or reliability of<br>and acceptance of<br>olements<br>Channel<br>perational Test to<br>(i.e., considered<br>ontrols specified in<br>evel of radioactive<br>190,<br>change will not<br>setpoint |
|                             | 8.2.25.2.9    | calculation. PORC review and acceptance of th<br>May 2007. This change implements Corrective<br>Order 200197646-0300 and CR 07-31083.<br><u>Procedure 1/2-ODC-3.03, Rev 7:</u> Revising Atta<br>Attachment F, Tables 3.3-13 & 4.3-13 to provid<br>remove unnecessary information does not remo<br>ODCM Controls specified in NUREG-1301. T<br>maintain the level of radioactive effluent contro<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.<br>10 CFR 50. Also, the change will not impact the<br>effluent dose or alarm setpoint calculation. POI<br>this change was completed in May 2007. This of<br>Corrective Actions per SAP Order 200247228-0  | is change w<br>Actions part<br>chment E 7<br>le added cla<br>ve or modi<br>herefore, th<br>l required b<br>36a, and A<br>le accuracy<br>RC review<br>change imp<br>0450.   | was completed in<br>er SAP<br>Table 3.3-12 and<br>arifications and to<br>fy any standard<br>his change will<br>by<br>ppendix I to<br>or reliability of<br>and acceptance of<br>elements   |
|                             | 8.2.25.2.10   | Procedure 1/2-ODC-3.03, Rev 7: Revising Atta<br>Table 4.3-12 and Action 25A to clarify the 1 <sup>st</sup> at<br>rate measurement devices used for the cooling to<br>not remove or modify any standard ODCM Corr<br>NUREG-1301. Therefore, this change will mai<br>effluent control required by 10 CFR 20.1302, 40<br>50.36a, and Appendix I to 10 CFR 50. Also, the<br>accuracy or reliability of effluent dose or alarm<br>review and acceptance of this change was comp<br>change implements Corrective Actions per SAP   | chment E, '<br>nd 2 <sup>nd</sup> alter<br>ower blowe<br>trols specifi<br>ntain the le<br>0 CFR Part<br>e change w<br>setpoint ca<br>leted in Ma   | Table 3.3-12,nates to the flowdown line doesfied invel of radioactive190, 10 CFRill not impact thelculation. PORCay 2007. This240681-0020.  |

| Beaver Valley Power Station   |   |                    | nber:                    |  |  |
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| 1100.   |   | 1/2                | General Skill Reference  |  |  |
| ODCM: Index, Matrix   | and History of ODCM Changes   | Revision:<br>16    | Page Number:<br>62 of 98 |  |  |
| 8.2.26 <u>Change (2</u>   | 26) of BV-1 and 2 ODCM (Effective May 2009)   |                    |                          |  |  |
| 8.2.26.1 A de   | escription of the changes implemented with this re-   | evision are        | as follows:              |  |  |
| 8.2.26.1.1  | Procedure 1/2-ODC-1.01 Rev 8: Reverted procedure back to the contents of Revision 6.  |                    |                          |  |  |
| 8.2.26.1.2  | 8.2.26.1.2 <u>Procedure 1/2-ODC-2.01, Rev 7:</u> Reverted procedure back to the contents of Revision 5.   |                    |                          |  |  |
| 8.2.26.1.3  | 8.2.26.1.3 <u>Procedure 1/2-ODC-3.03, Rev 8:</u> Reverted procedure back to the contents of Revision 6.   |                    |                          |  |  |
| 8.2.26.2 The  | justifications used for change (26) of the ODCM   | are as follo       | ows:                     |  |  |
| 8.2.26.2.1 <u>Procedure 1/2-ODC-1.01 Rev 8</u> : It was determined that the implementation of Revision 7 was premature because supporting procedure changes were not completed and surveillances required by these changes were not in place. This procedure was reverted back to the contents of the previous revision. This change implements Corrective Actions initiated by and described in CR 09-59875. |   |                    |                          |  |  |
| 8.2.26.2.2  | 26.2.2 <u>Procedure 1/2-ODC-2.01, Rev 7:</u> It was determined that the implementation of Revision 6 was premature because supporting procedure changes were not completed and surveillances required by these changes were not in place. This procedure was reverted back to the contents of the previous revision. This change implements Corrective Actions initiated by and described in CR 09-59875. |                    |                          |  |  |
| 8.2.26.2.3 <u>Procedure 1/2-ODC-3.03, Rev 8:</u> It was determined that the implementation of Revision 7 was premature because supporting procedure changes were not completed and surveillances required by these changes were not in place. This procedure was reverted back to the contents of the previous revision. This change implements Corrective Actions initiated by and described in CR 09-59875. |   |                    |                          |  |  |
| 8.2.27 <u>Change (2</u>   | 7) of BV-1 and 2 ODCM (Effective August 2010  | )                  |                          |  |  |
| 8.2.27.1 A de   | escription of the changes implemented with this re  | evision are        | as follows:              |  |  |
| 8.2.27.1.1  | Procedure 1/2-ODC-1.01, Rev 9: Added revisio<br>Changes 25 and 26.  | n history to       | o capture                |  |  |
| 8.2.27.1.2  | <u>Procedure 1/2-ODC-1.01, Rev 9:</u> Removed the review and acceptance of changes made to the C  | requiremen<br>DCM. | t for PORC               |  |  |

| Beaver Valley Power Station |            |  |  | ber:<br>/2_ODC_1_01  |
|-----------------------------|------------|--|--|--|
| Title:                      |            |  | Unit:  | Level Of Use:  |
| ODOM I I                    | N . ·      |  | 1/2<br>Revision:   | General Skill Reference  |
| ODCM: Index                 | , Matrix a | and History of ODCM Changes  | 16   | <u>63 of 98</u>  |
| 8.2.2                       | 7.1.3      | Procedure 1/2-ODC-1.01, Rev 9: Revised Attac<br>procedure matrix to remove obsolete forms and<br>Channel Checks. Specifically, Form 1/2-ADM<br>Form 1/2-ADM-0606.F02, Form 1/2-HPP-3.07<br>1/2-HPP-3.06.005, 1/2-HPP-3.06.006 were rem<br>matrix (superseded by 1/2-ADM-1611.F03, 1/2<br>NOP-OP-4702-01, 1/2-ENV-05.04, and 1/2-EN<br>Reference SAP Order 200257692-0360 and 039<br>for Operational Surveillance Tests (OSTs) for C<br>have since been split from one large OST into s<br>radiation monitor and obsolete Chemistry and E | chment C T<br>procedures<br>-0606.F01,<br>.003.F01 ar<br>oved from<br>-ADM-161<br>IV-05.05, ra<br>00. Referer<br>Channel Fur<br>pecific OS<br>Environmen | ables of the<br>s used for ODCM<br>ad procedures<br>the procedure<br>1.F04,<br>espectively).<br>aces were updated<br>actional Tests that<br>Is for each<br>tal procedures. |
| 8.2.2                       | 7.1.4      | <u>Procedure 1/2-ODC-2.01, Rev 8:</u> Revised Attachment D Figure 1.4-3 to<br>remove Sewage Treatment Plants (STP) Outfalls 113 and 203 due to<br>retirement of the STP and to remove U1 Steam Generator Blowdown Filter<br>Backwash Outfall 501. Water is no longer discharged via these outfalls.<br>Reference SAP Order 200197646-0660.   |  |  |
| 8.2.2                       | 7.1.5      | <u>Procedure 1/2-ODC-2.01, Rev 8:</u> Revised section<br>alarm setpoints for all possible detector combin<br>Specifically, due to obsolescence of the original<br>detectors that were previously installed in [RM-<br>upgraded them to Model 843-30R and 843-32R<br>upgraded efficiency data as well. Reference SA   | on 8.1.1.1 to<br>ations for [1<br>Model 843<br>1DA-100],<br>detectors,<br>P Order 20   | o incorporate<br>RM-1DA-100].<br>3-30 and 843-32<br>the vendor has<br>which include<br>0197646-0810.   |
| 8.2.27                      | 7.1.6      | Procedure 1/2-ODC-2.01, Rev 8: Added the Co<br>[1BR-TK-4A/4B] as Liquid Waste Tanks to Sec<br>Attachment D Figures 1.4-1 and 1.4-2. Added a<br>recirculation time of 45.7 hrs for the Coolant Re<br>[1BR-TK-4A/4B] to Attachment B Table 1.2-1a<br>Removal Ion Exchangers [1BR-I-1A/1B and 2B<br>8.4 description and Attachment B Figures 1.4-1<br>recirculation times in Attachment B Table 1.2-1<br>times for nominal tank volume and maximum ta<br>CR 05-00004-15, CR 05-00004-17 and SAP Or  | olant Recov<br>ction 8.4 de<br>a default 2<br>ecovery Tar<br>a. Added th<br>BRS-IOE21<br>and 1.4-2.<br>a and 1.2-1<br>ank volume<br>der 200197           | very Tanks<br>scription and<br>tank volume<br>tanks<br>the Cesium<br>A/21B] to Section<br>Revised the<br>b to indicate the<br>. Reference<br>646-0010.                     |
| 8.2.27                      | 7.1.7      | Procedure 1/2-ODC-2.03, Rev 2: Corrected sam<br>for TLD #94 and #95; Changed sample designat<br>Clarified program requirements for garden samp<br>implement Corrective Actions for CA #10-7748   | pling locat<br>tion from #<br>oling. Thes<br>9-1.  | ion descriptions<br>49 to #49A;<br>e changes   |
| 8.2.27                      | 7.1.8      | Procedure 1/2-ODC-3.03, Rev 9: Added a defin<br>Test and revised the definition for Channel Oper<br>these definitions have the same requirements an<br>equal. Reference SAP Order 200197646-0300 a   | ition for Ch<br>rational Tes<br>d, therefore<br>and CR07-3   | annel Functional<br>st to indicate that<br>, are considered<br>1083.   |

| Beaver Valley Power Station   |   | Procedure Nun<br>1   | nber:<br>/2-ODC-1.01   |
|---|---|--|--|
| Title:  |   | Unit:  | Level Of Use:<br>General Skill Deference   |
| ODCM: Index, Matrix   | and History of ODCM Changes   | 172<br>Revision:<br>16   | Page Number:<br>64 of 98   |
| 8.2.27.1.9  | Procedure 1/2-ODC-3.03, Rev 9: Revised Attac<br>Attachment F, Tables 3.3-13 & 4.3-13 to provide<br>remove unnecessary information, as follows: (1<br>it is missing from Attachment F, Table 3.3-13 &<br>samples from the list of alternates in Table 3.3-<br>sample is an "action", not an "alternate", (3) ad<br>and 3.3-13 to indicate that Condition Report ge<br>Radioactive Effluent Release Report (per Contr   | chment E T<br>de added cl<br>) added the<br>& 4.3-13, (2<br>13 and 4.3-<br>ded notatio<br>neration an<br>rol 3.3.3.9 A | Table 3.3-12 and<br>arifications and to<br>e word "or" where<br>2) removed grab<br>13, because a grab<br>ons in Table 3.3-12<br>d reporting in the<br>Action b and |
|   | 3.3.3.10 Action b) do not apply when using an inoperability of the primary instrument beyond surveillances for Preplanned Method of Monito Table 4.3-3, because surveillances only apply to Reference SAP Order 200247228-0450.   | alternate to<br>30 days, an<br>ring (PMM<br>o instrumen  | satisfy<br>nd (4) removed<br>I) from<br>nts, not methods.  |
| 8.2.27.1.10   | <u>Procedure 1/2-ODC-3.03, Rev 9:</u> Revised Attachment E, Table 3.3-12,<br>Table 4.3-12 and Action 25A to clarify the 1 <sup>st</sup> and 2 <sup>nd</sup> alternates to the flow<br>rate measurement devices used for the cooling tower blowdown line.<br>Specifically, 1 <sup>st</sup> alternate will use the individual Units' devices, and the 2 <sup>nd</sup><br>alternate will use local measurements via 1MSP-31.06-I. The alternates<br>were chosen in this particular order to support practicality of plant<br>operations, rather than the way they were initially proposed in the SAP<br>order. Reference SAP Order 200240681-0020. |  |  |
| 8.2.27.1.11 <u>Procedure 1/2-ODC-3.03, Rev 9:</u> Revised Attachment D Tables 3.3-6 and 4.3-3 to remove obsolete forms and procedures Specifically, Form 1/2-ENV-05.14.F01 was removed. |   |  |  |
| 8.2.27.2 The  | justifications used for change (27) of the ODCM   | are as follo   | ws:  |
| 8.2.27.2.1  | <u>Procedure 1/2-ODC-1.01 Rev 9</u> : Because it wa<br>implementation of Revision 7 was premature ar<br>reverted back to the exact contents of the previo<br>history was not captured. PORC review and ac<br>completed in August 2010.  | s determine<br>ad this proce<br>ous revision<br>ceptance of  | ed that the<br>edure was<br>, the revision<br>This change was  |
| 8.2.27.2.2  | <u>Procedure 1/2-ODC-1.01, Rev 9:</u> Removed the review and acceptance of changes made to the 0 requirement of ITS 5.5.1. PORC review and ac completed in August 2010.   | requiremen<br>DDCM as it<br>ceptance of  | t for PORC<br>is no longer a<br>this change was  |
|   |   |  |  |

| Beaver Valley Power Station |   | Procedure Number:<br>1/2-ODC-1.01  |   |
|-----------------------------|---|--|---|
| Title:                      | <u>,</u>  | Unit:  | Level Of Use:   |
| ODCM: Index, Matrix         | and History of ODCM Changes   | Revision:  | Page Number:  |
|                             |   | 16   | 65 of 98  |
| 8.2.27.2.3                  | Procedure 1/2-ODC-1.01, Rev 9: Revising Atta<br>procedure matrix to remove obsolete forms and<br>or modify any standard ODCM Controls specif<br>Therefore, this change will maintain the level o<br>required by 10 CFR 20.1302, 40 CFR Part 190,<br>Appendix I to 10 CFR 50. Also, the change wi<br>reliability of effluent dose or alarm setpoint calc<br>implements some of the corrective actions per S<br>and 0390. PORC review and acceptance of this<br>August 2010.  | ichment C<br>procedures<br>ied in NUR<br>f radioactiv<br>10 CFR 50<br>Il not impac<br>culation. T<br>SAP Order<br>change wa  | Tables of the<br>s does not remove<br>EG-1301.<br>We effluent control<br>0.36a, and<br>ct the accuracy or<br>This change<br>200257692-0360<br>s completed in  |
| 8.2.27.2.4                  | Procedure 1/2-ODC-2.01, Rev 8: Revising Atta<br>remove Sewage Treatment Plants (STP) Outfall<br>Generator Blowdown Filter Backwash Outfall 5<br>modify any standard ODCM Controls specified<br>Therefore, this change will maintain the level of<br>required by 10 CFR 20.1302, 40 CFR Part 190,<br>Appendix I to 10 CFR 50. Also, the change will<br>reliability of effluent dose or alarm setpoint cald<br>acceptance of this change was completed in Au<br>implements Corrective Actions per SAP Order 5   | chment D I<br>ls 113 and 2<br>501 does no<br>501 does no<br>f radioactiv<br>10 CFR 50<br>Il not impac<br>culation. P<br>gust 2010.<br>200197646                                    | Figure 1.4-3 to<br>203 and U1 Steam<br>of remove or<br>G-1301.<br>we effluent control<br>0.36a, and<br>ct the accuracy or<br>ORC review and<br>This change<br>-0660.  |
| 8.2.27.2.5                  | Procedure 1/2-ODC-2.01, Rev 8: Revising Sect<br>alarm setpoints for all possible detector combin<br>does not remove or modify any standard ODCM<br>NUREG-1301. Therefore, this change will mai<br>effluent control required by 10 CFR 20.1302, 44<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.<br>impact the accuracy or reliability of effluent dos<br>calculation. PORC review and acceptance of th<br>August 2010. This change implements Correction<br>Order 200197646-0810.  | ion 8.1.1.1<br>ations for [<br>1 Controls<br>ntain the le<br>0 CFR Part<br>Also, the c<br>se or alarm<br>his change v<br>ive Actions   | to incorporate<br>RM-1DA-100]<br>specified in<br>vel of radioactive<br>190,<br>change will not<br>setpoint<br>was completed in<br>per SAP   |
| 8.2.27.2.6                  | Procedure 1/2-ODC-2.01, Rev 8: Adding; (1) thas Liquid Waste Tanks, (2) adding a default 2-tatime for the Coolant Recovery Tanks, (3) adding Exchangers, and (4) revising the recirculation tinominal tank volume and maximum tank volum any standard ODCM Controls specified in NUR change will maintain the level of radioactive eff 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50. 10 CFR 50. Also, the change will not impact the effluent dose or alarm setpoint calculation. POI this change was completed in August 2010. This Corrective Actions per CR 05-00004-15, CR 05 Order 200197646-0010. | the Coolant I<br>ank volume<br>g the Cesiu<br>mes to indi<br>the does not<br>REG-1301.<br>Fluent contr<br>36a, and Ag<br>the accuracy<br>RC review a<br>is change in<br>5-00004-17 | Recovery Tanks<br>e recirculation<br>m Removal Ion<br>cate the times for<br>remove or modify<br>Therefore, this<br>ol required by<br>ppendix I to<br>or reliability of<br>and acceptance of<br>nplements<br>and SAP |

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| Beaver Valley Power Station |               |   | Procedure Nun<br>1   | nber:<br>/2-ODC-1.01  |
|-----------------------------|---------------|---|--|---|
| Title:                      |               |   | Unit:<br>1/2   | Level Of Use:<br>General Skill Reference  |
| ODCM:                       | Index, Matrix | and History of ODCM Changes   | Revision:<br>16  | Page Number:<br>66 of 98  |
|                             | 8.2.27.2.7    | <u>Procedure 1/2-ODC-2.03, Rev 2:</u> All changes in<br>labeling deficiencies. They did not change prog<br>implementation of program sampling. There is<br>reliability of the Radiological Environmental M<br>change implements Corrective Action 10-77489<br>changes was completed on August 2010.   | n this revisi<br>gram requin<br>no impact<br>lonitoring H<br>H-1. PORC   | ion were to correct<br>rements or the<br>to the accuracy or<br>Program. This<br>review of these   |
|                             | 8.2.27.2.8    | Procedure 1/2-ODC-3.03, Rev 9: Adding a defi<br>Test and revising the definition for Channel Op<br>these definitions have the same requirements (i.<br>not remove or modify any standard ODCM Cor<br>NUREG-1301. Therefore, this change will mai<br>effluent control required by 10 CFR 20.1302, 44<br>50.36a, and Appendix I to 10 CFR 50. Also, th<br>accuracy or reliability of effluent dose or alarm<br>review and acceptance of this change was comp<br>change implements Corrective Actions per SAF<br>CR 07-31083.    | nition for C<br>erational T<br>e., conside<br>ntrols speci<br>ntain the le<br>0 CFR Part<br>e change w<br>setpoint ca<br>oleted in Au  | Channel Functional<br>est to indicate that<br>red equal) does<br>fied in<br>evel of radioactive<br>190, 10 CFR<br>fill not impact the<br>lculation. PORC<br>agust 2010. This<br>197646-0300 and |
|                             | 8.2.27.2.9    | Procedure 1/2-ODC-3.03, Rev 9: Revising Atta<br>Attachment F, Tables 3.3-13 & 4.3-13 to provide<br>remove unnecessary information does not remo<br>ODCM Controls specified in NUREG-1301. The<br>maintain the level of radioactive effluent contro<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.<br>10 CFR 50. Also, the change will not impact the<br>effluent dose or alarm setpoint calculation. POI<br>this change was completed in August 2010. The<br>Corrective Actions per SAP Order 200247228-0                     | achment E<br>le added cla<br>ve or modi<br>herefore, th<br>l required b<br>36a, and A<br>be accuracy<br>RC review<br>is change in<br>0450.                                     | Table 3.3-12 and<br>arifications and to<br>fy any standard<br>his change will<br>by<br>ppendix I to<br>or reliability of<br>and acceptance of<br>mplements                                      |
|                             | 8.2.27.2.10   | Procedure 1/2-ODC-3.03, Rev 9: Revising Atta<br>Table 4.3-12 and Action 25A to clarify the 1 <sup>st</sup> at<br>rate measurement devices used for the cooling t<br>not remove or modify any standard ODCM Con<br>1301. Therefore, this change will maintain the<br>control required by 10 CFR 20.1302, 40 CFR Pa<br>Appendix I to 10 CFR 50. Also, the change will<br>reliability of effluent dose or alarm setpoint calc<br>acceptance of this change was completed in Aug<br>implements Corrective Actions per SAP Order 2 | chment E, <sup>7</sup><br>nd 2 <sup>nd</sup> alter<br>ower blowd<br>atrols specific<br>level of rad<br>art 190, 10<br>1 not impace<br>culation. Po-<br>gust 2010.<br>200240681 | Table 3.3-12,nates to the flowdown line doesfied in NUREG-ioactive effluentCFR 50.36a, andct the accuracy orORC review andThis change-0020.   |

| Beaver Valley Power Station  |  |  | Procedure Number:<br>1/2-ODC-1.01                       |  |  |
|--|--|--|---|--|--|
| Title:   |  | Unit:  | Level Of Use:   |  |  |
| ODCM: Index, Matrix  | ODCM: Index, Matrix and History of ODCM Changes  |  | Page Number:<br>67 of 98                                |  |  |
| <ul> <li>8.2.27.2.11 Procedure 1/2-ODC-3.03, Rev 9: Revising Attachment D Tables to remove obsolete forms and procedures does not remove or modify any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. Also, the change will not impact the accuracy or reliability of effluent dose or alarm setpoint calculation. PORC review and acceptance of this change was completed in August 2010.</li> </ul> |  |  |   |  |  |
| 8.2.28 <u>Change (2</u>  | 8) of BV-1 and 2 ODCM (Effective December 20   | <u>)10)</u>  |   |  |  |
| 8.2.28.1 A de  | scription of the changes implemented with this re-   | evision are  | as follows:   |  |  |
| 8.2.28.1.1 <u>Procedure 1/2-ODC-1.01, Rev 10:</u> Revision history was updated and references to CTS and ITS conversion project were removed.  |  |  |   |  |  |
| 8.2.28.1.2   | 8.2.28.1.2 <u>Procedure 1/2-ODC-2.01, Rev 9:</u> Removed description that batch releases of liquid waste are processed by recirculation through eductors. Deleted Attachment B which referenced minimum liquid waste batch release recirculation times and added description that liquid waste recirculation times to achieve two tank volumes are calculated based upon actual tank volume and pump capacity. |  |   |  |  |
| 8.2.28.2 The   | justifications used for change (28) of the ODCM  | are as follo   | ws:   |  |  |
| . 8.2.28.2.1   | Procedure 1/2-ODC-1.01 Rev 10: Changes are a<br>ITS conversion project has been completed. The<br>maintain the level of radioactive effluent contro<br>10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.<br>10 CFR 50.   | administrat<br>erefore, thi<br>l required t<br>36a, and Ay | ive only because<br>s change will<br>by<br>ppendix I to |  |  |
|  |  |  |   |  |  |

| Beaver Valley Power Station  |   |   | ber:<br>/2_ODC_1_01   |  |
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| Title:   | <u>, , , , , , , , , , , , , , , , , , , </u>   | Unit:   | Level Of Use:   |  |
| ODCM: Index. Matrix and History of   | ODCM Changes  | 1/2<br>Revision:  | Page Number:  |  |
|  | 02 011 01118-0  | _16   | 68 of 98  |  |
| <ul> <li>8.2.28.2.2 <u>Procedure 1/2-ODC-2.01 Rev 9</u>: Change removes description that batch releases of liquid waste be recirculated through tanks with eductors. Eductors are not currently installed on liquid waste tanks. Per BVPS-1 UFSAR Section 1.3.3.21, the recommendations contained in Regulatory Guide 1.21 (1974) are followed. The RG states that (prior to sampling) "large volumes of liquid waste should be mixed in as short a time interval as practicable to assure that any sediments or particulate solids are distributed uniformly in the waste mixture." BVPS-2 UFSAR Table 1.8-1 contains a similar statement. As such, current licensing bases does not require eductors for processing batch releases of liquid releases. Recirculation times of liquid waste tanks for batch liquid releases. Recirculation times are calculated based upon actual tank volume and pump capacity and this description was added. The change does not remove or modify any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50.</li> <li>8.2.29 Change (29) of BV-1 and 2 ODCM (Effective January 2011)</li> </ul> |   |   |   |  |
| 8.2.29.1 A description of the  | changes implemented with this re  | evision are a   | as follows:   |  |
| <ul> <li>8.2.29.1.1 Procedure 1/2-ODC-2.02, Rev 3: This revision corrected a spelling error in the title of Attachment C. A typo was corrected in equation 2.2-13. Calculated values of the organ dose parameters, P<sub>iτ</sub>, listed in Table 2.2-13 were verified to have been accurately calculated using the breathing rate of 3.7E9 in Calculation Package No. ERS-HHM-84-20, ODCM Update of Table 2.2-1S and Calculation Package No. ERS-ATL-89-014, Verification/Validation of ODCM R Values. Dose factors for Selenium-75 (Se-75) were provided by ABS Consulting. Attachment H (Table 2.2-13) and Attachment J (Tables 2.3-2 through 2.3-20) were copied into excel/word format and updated to include Se-75.</li> </ul>  |   |   |   |  |
| 8.2.29.1.2 <u>Procedure 1/2</u><br>(Change 25, F<br>notations in T<br>generation and<br>Control 3.3.3.<br>alternate to sa<br>However, Cor<br>conflicting gu<br>Therefore, the<br>Action b in the   | <u>-ODC-3.03 Rev 10:</u> The previous<br>tevision 7 and then again in Chang<br>able 3.3-12 and 3.3-13 to indicate<br>d reporting in the Radioactive Effl<br>9 Action b and 3.3.3.10 Action b)<br>tisfy inoperability of the primary in<br>the distribution of the primary is<br>distribution of the primary is<br>distribution of the distribution of the distribution<br>in the distribution of the distribution of the distribution<br>is revision. | a revisions to<br>ge 27, Revisions<br>that Condituent Releas<br>do not applinstrument to<br>Action b protincluded<br>3.3.9 Action | o the procedure<br>sion 9) added<br>ion Report<br>e Report (per<br>y when using an<br>beyond 30 days.<br>rovided<br>on these pages.<br>a b and 3.3.3.10 |  |

| Beaver Valley Power Station   |  |                             | nber:<br>/2-ODC-1.01                     |  |  |  |
|---|--|-----------------------------|--|--|--|--|
| Title:  |  | Unit:<br>1/2                | Level Of Use:<br>General Skill Reference |  |  |  |
| ODCM: Index, Matrix   | and History of ODCM Changes  | Revision:<br>16             | Page Number:<br>69 of 98                 |  |  |  |
| 8.2.29.2 The j  | ustifications used for change (29) of the ODCM   | are as follo                | ows:                                     |  |  |  |
| 8.2.29.2.1 <u>Procedure 1/2-ODC-2.02, Rev 3</u> : This change corrects a minor typo and adds an isotope to the program. The change does not remove or modify any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50.  |  |                             |  |  |  |  |
| 8.2.29.2.2 <u>Procedure 1/2-ODC-3.03 Rev 10:</u> Revising the Controls for Attachment E<br>Table 3.3-12 and Attachment F, Tables 3.3-13 to provide added clarification<br>does not remove or modify any standard ODCM Controls currently in place.<br>Therefore, this change will maintain the level of radioactive effluent control<br>required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and<br>Appendix I to 10 CFR 50.   |  |                             |  |  |  |  |
| 8.2.30 <u>Change (30</u>  | )) of BV-1 and 2 ODCM (Effective September 2   | <u>011)</u>                 |  |  |  |  |
| 8.2.30.1 A des  | scription of the changes implemented with this re-   | evision are                 | as follows:                              |  |  |  |
| 8.2.30.1.1 <u>Procedure 1/2-ODC-2.03, Rev 3</u> : This change retired TLD Station #88 and added Station #88A according to CA G203-2011-97516-001 due to repeated vandalism of the sample point.   |  |                             |  |  |  |  |
| 8.2.30.2 The j  | ustifications used for change (29) of the ODCM   | are as follo                | ows:                                     |  |  |  |
| 8.2.30.2.1 <u>Procedure 1/2-ODC-2.03, Rev 3</u> : This revision exchanges two sample<br>locations within the same sector, therefore maintaining the same total<br>number of monitoring points located around BVPS. The change does not<br>remove or modify any standard ODCM Controls specified in NUREG-1301.<br>Therefore, this change will maintain the level of radioactive effluent control<br>required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and<br>Appendix I to 10 CFR 50. |  |                             |  |  |  |  |
| 8.2.31 <u>Change (31</u>  | ) of BV-1 and 2 ODCM (Effective December 20  | <u>)11)</u>                 |  |  |  |  |
| 8.2.31.1 A des  | 8.2.31.1 A description of the changes implemented with this revision are as follows:   |                             |  |  |  |  |
| 8.2.31.1.1  | <u>Procedure 1/2-ODC-2.03, Rev 4:</u> This revision sampling requirements when milk sampling req to milk sampling locations being unavailable. | increases vo<br>uirements c | egetation<br>cannot be met due           |  |  |  |
| 8.2.31.1.2 <u>Procedure 1/2-ODC-3.03, Rev 11</u> : This revision increases vegetation sampling requirements when milk sampling requirements cannot be met du to milk sampling locations being unavailable.  |  |                             | vegetation<br>cannot be met due          |  |  |  |
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|  |   | Drocedure Mu   | mhar  |  |
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| Beave  | Beaver Valley Power Station   |  |   |  |
| Title:   |   | Unit:  | Level Of Use:   |  |
|  |   | 1/2<br>Revision  | General Skill Reference   |  |
| ODCM: Index, Matrix  | x and History of ODCM Changes   | 16   | 70 of 98  |  |
| 8.2.31.2 The   | e justifications used for change (31) of the ODCM   | l are as foll  | ows:  |  |
| 8.2.31.2.1 <u>Procedure 1/2-ODC-2.03, Rev 4</u> : Because of decreasing milk locations in the vicinity of BVPS, the REMP needed to be revised to provide instructions for sampling when we do not have enough milk locations to meet ODCM requirements. The vegetation sampling program is in accordance with NUREG-1301. The change does not remove any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. |   |  |   |  |
| 8.2.31.2.2   | 8.2.31.2.2 <u>Procedure 1/2-ODC-3.03, Rev 11</u> : Because of decreasing milk locations in the vicinity of BVPS, the REMP needed to be revised to provide instructions for sampling when we do not have enough milk locations to meet ODCM requirements. The vegetation sampling program is in accordance with NUREG-1301. The change does not remove any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50. |  |   |  |
| 8.2.32 <u>Change (3</u><br>8.2.32.1 A d  | 32) of BV-1 and 2 ODCM (Effective February 20 escription of the changes implemented with this r   | <u>12)</u><br>evision are  | as follows:   |  |
| 8.2.32.1.1   | <u>Procedure 1/2-ODC-2.01, Rev 10</u> : This revision<br>Liquid Rad Waste System per ECP 11-0049 in<br>improvements to the system after the site addec<br>[BR-TK-4A/B] to the liquid waste system in re<br>Other descriptions to the liquid waste system co<br>better reflect actual plant conditions (for examp<br>through the radiation monitor for BR-TK-4A/B<br>selection/sequence for LW-I-2).   | n implemen<br>order to co<br>l the Coola<br>vision 8 (C<br>omponents<br>ole, normal<br>or the resi | nts changes to the<br>ntinue<br>nt Recovery Tanks<br>DCM Change 27).<br>were revised to<br>rate of discharge<br>n |  |
| 8.2.32.2 The   | justifications used for change (32) of the ODCM   | are as follo   | ows:  |  |
| 8.2.32.2.1   | Procedure 1/2-ODC-2.01, Rev 10: This change<br>Rad Waste System. It does not remove any star<br>specified in NUREG-1301. Therefore, this char<br>radioactive effluent control required by 10 CFR<br>10 CFR 50.36a, and Appendix I to 10 CFR 50.   | provides a<br>ndard ODC<br>nge will m<br>20.1302, 4  | description of the<br>CM Controls<br>aintain the level of<br>40 CFR Part 190,                                     |  |
|  |   |  |   |  |

2-23-12

| Beave   | er Valley Power Station  | Procedure N   | umber: $1/2 - ODC - 1.01$   |  |
|---|--|---|---|--|
| Title:  |  |   | Level Of Use:   |  |
| ODCM: Index. Matri  | x and History of ODCM Changes  | 1/2<br>Revision:  | General Skill Reference<br>Page Number:   |  |
|   |  |   | 71 of 98  |  |
| 8.2.33 <u>Change</u>  | 33) of BV-1 and 2 ODCM (Effective June 201   | <u>2)</u>   |   |  |
| 8.2.33.1 A description of the changes implemented with this revision are as follows:  |  |   |   |  |
| <ul> <li>8.2.33.1.1 Procedure 1/2-ODC-2.01, Rev 11: This revision adds<br/>Antimony-126 (Sb-126) to Attachment B Table 1.3-1, Ingestion Dose<br/>Commitment Factors, after the isotope was identified during 1R21. Af<br/>revising ERS-ATL-83-027, the calculation package for liquid Ingestion<br/>Dose Commitment Factors, it was noticed that other isotopes previousl<br/>calculated in the package were not included in Attachment B. These w<br/>also added to the ODCM at this time. The revision also reduces the HI<br/>and HSP for Unit 1 Radiation Monitor RM-RW-100 per Calculation<br/>Package ERS-ATL-93-021 Rev. 4.</li> </ul> |  |   |   |  |
| 8.2.33.2 Th   | e justifications used for change (33) of the ODO   | CM are as fol   | lows:   |  |
| <ul> <li>8.2.33.2.1 <u>Procedure 1/2-ODC-2.01, Rev 11</u>: This change added the ability to calcudate dose for additional isotopes and lowered the alarm setpoints for a radiation monitor. It did not remove any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioact effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50.</li> </ul>   |  |   |   |  |
| 8.2.34 <u>Change (</u>  | 34) of BV-1 and 2 ODCM (Effective July 2012  | <u>?)</u>   |   |  |
| 8.2.34.1 A c  | lescription of the changes implemented with the  | is revision are   | e as follows:   |  |
| 8.2.34.1.1  | Procedure 1/2-ODC-1.01, Rev 16: Removed procedure 1/2-ENV-05.25. This procedure i future.  | l reference to<br>s slated for d  | analytical<br>eletion in the near   |  |
| 8.2.34.1.2  | Procedure 1/2-ODC-2.01, Rev 12: This revise<br>processed and unprocessed liquid wastes fro<br>[LW-TK-3A/B]. These tanks were originall<br>discharge to the Ohio River. They are not ge<br>volume capacity. A request was made by Op<br>these tanks to prevent unnecessary damage/c<br>exchanger(s) from non-radioactive water con<br>contaminants. | sion adds the<br>m the low lev<br>y designed w<br>enerally used<br>perations to a<br>lepletion of th<br>ntaining high | ability to discharge<br>yel drains tanks<br>ith the ability to<br>due to their small<br>llow discharge of<br>the liquid waste ion<br>chemical |  |
| 8.2.34.2 The  | e justifications used for change (34) of the ODC   | CM are as foll  | ows:  |  |
| 8.2.34.2.1  | <u>Procedure 1/2-ODC-1.01, Rev 16</u> : This char<br>throughout the document. It did not remove<br>specified in NUREG-1301. Therefore, this c<br>radioactive effluent control required by 10 C<br>10 CFR 50.36a, and Appendix I to 10 CFR 50   | nge removed<br>any standard<br>change will m<br>FR 20.1302,<br>50.  | a reference<br>ODCM Controls<br>naintain the level of<br>40 CFR Part 190,   |  |

6-8-12

| Beaver Valley Power Station                     |                 | Procedure Number:<br>1/2-ODC-1.01        |  |
|---|-----------------|--|--|
| Title:  | Unit:<br>1/2    | Level Of Use:<br>General Skill Reference |  |
| ODCM: Index, Matrix and History of ODCM Changes | Revision:<br>16 | Page Number:<br>72 of 98                 |  |

8.2.34.2.2 Procedure 1/2-ODC-2.01, Rev 12: This change added the ability to discharge processed and unprocessed liquid wastes from the low level drains tanks [LW-TK-3A/B]. It did not remove any standard ODCM Controls specified in NUREG-1301. Therefore, this change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR 50.

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## 7-26-12
|        | Beaver Valley Power Station  | Procedure Nur<br>1 | nber: $/2 - ODC - 1 01$ |  |  |  |  |
|--------|--|--------------------|-------------------------|--|--|--|--|
| Title: |  | Unit:              | Level Of Use:           |  |  |  |  |
| ODCM:  | Index, Matrix and History of ODCM Changes  | Revision:          | Page Number:            |  |  |  |  |
|        | ATTACHMENT A   |                    |                         |  |  |  |  |
|        | Page 1 of 6<br>LIST OF ODCM TABLES   |                    |                         |  |  |  |  |
|        |  |                    |                         |  |  |  |  |
| LIQUID | EFFLUENTS Included in Procedure 1/2-ODC-2.01   |                    |                         |  |  |  |  |
| 1.1-1a | BV-1 Liquid Source Term  |                    |                         |  |  |  |  |
| 1.1-1b | 1.1-1b BV-2 Liquid Source Term   |                    |                         |  |  |  |  |
| 1.2-1a | 1.2-1a BV-1 Recirculation Times Required Before Sampling Of Liquid Discharge Tanks                         |                    |                         |  |  |  |  |
| 1.2-1b | 1.2-1b BV-2 Recirculation Times Required Before Sampling Of Liquid Discharge Tanks                         |                    |                         |  |  |  |  |
| 1.3-1  | 1.3-1 $A_{i\tau}$ Values For An Adult For The Beaver Valley Site   |                    |                         |  |  |  |  |
| GASEOU | GASEOUS EFFLUENTS Included in Procedure 1/2-ODC-2.02   |                    |                         |  |  |  |  |
| 2.1-1a | 2.1-1a BV-1 Radionuclide Mix For Gaseous Effluents   |                    |                         |  |  |  |  |
| 2.1-1b | BV-2 Radionuclide Mix For Gaseous Effluents  |                    |                         |  |  |  |  |
| 2.1-2a | 2a BV-1 Monitor Detector Efficiencies  |                    |                         |  |  |  |  |
| 2.1-2b | BV-2 Monitor Detector Efficiencies   |                    |                         |  |  |  |  |
| 2.2-1  | 2.2-1 Modes Of Gaseous Release From Beaver Valley Site Vents For Implementation Of 10 CFR 20 And 10 CFR 50 |                    |                         |  |  |  |  |
| 2.2-2a | 2.2-2a BV-1 Radionuclide Mix For Gaseous Effluents   |                    |                         |  |  |  |  |
| 2.2-2b | BV-2 Radionuclide Mix For Gaseous Effluents  |                    |                         |  |  |  |  |
| 2.2-3  | 2.2-3 Distances Of Limiting Maximum Individual Receptors To Release Points For Annual χ/Q Values           |                    |                         |  |  |  |  |
| ANNUA  | L AVERAGE X/Q Included in Procedure 1/2-ODC-2.02   |                    |                         |  |  |  |  |
| 2.2-4  | BV-1 And 2 Containment Vents (Ground Release)  |                    |                         |  |  |  |  |
| 2.2-5  | BV-1 And 2 Ventilation Vents (Ground Release)  |                    |                         |  |  |  |  |
| 2.2-6  | BV-1 And 2 Process Vent (Elevated Release)   |                    |                         |  |  |  |  |
| 2.2-7  | BV-1 And 2 Turbine Building Vents (Ground Release)   |                    |                         |  |  |  |  |
| 2.2-8  | BV-2 Decontamination Building Vent (Ground Release)  |                    |                         |  |  |  |  |
|        |  |                    |                         |  |  |  |  |

|   | Beaver Valley Power Station   | Procedure Nun   | nber:<br>/2-ODC-1.01                     |  |  |  |  |
|---|---|-----------------|--|--|--|--|--|
| Title:  |   | Unit:<br>1/2    | Level Of Use:<br>General Skill Reference |  |  |  |  |
| ODCM:   | Index, Matrix and History of ODCM Changes   | Revision:<br>16 | Page Number:<br>74 of 98                 |  |  |  |  |
| ATTACHMENT A<br>Page 2 of 6<br>LIST OF ODCM TABLES                  |   |                 |  |  |  |  |  |
| 2.2-9   | 2.2-9 BV-2 Waste Gas Storage Vault Vent (Ground Release)  |                 |  |  |  |  |  |
| 2.2-10  | 2.2-10 BV-2 Condensate Polishing Building (Ground Release)  |                 |  |  |  |  |  |
| NOBLE GAS DOSE FACTORS AND DOSE PARAMETERS Included in 1/2-ODC-2.02 |   |                 |  |  |  |  |  |
| 2.2-11  | Dose Factors For Noble Gases And Daughters  |                 |  |  |  |  |  |
| 2.2-12  | 2.2-12 Dose Parameters For Finite Elevated Plumes, Beaver Valley Site   |                 |  |  |  |  |  |
| <u>P&amp;I DOS</u>  | SE PARAMETERS Included in 1/2-ODC-2.02  |                 |  |  |  |  |  |
| 2.2-13  | Pit Values For A Child For The Beaver Valley Site   |                 |  |  |  |  |  |
| MODES   | OF GASEOUS RELEASES Included in Procedure 1/2-ODC-  | 2.02            |  |  |  |  |  |
| 2.3-1   | 2.3-1 Modes Of Gaseous Release From The Beaver Valley Site Vents For Implementation Of 10<br>CFR 20 And 10 CFR 50 |                 |  |  |  |  |  |
| <u>P&amp;I ORC</u>  | GAN DOSE FACTORS Included in 1/2-ODC-2.02   |                 |  |  |  |  |  |
| 2.3-2   | R Values for Inhalation - Adult   |                 |  |  |  |  |  |
| 2.3-3   | R Values for Inhalation - Teen  |                 |  |  |  |  |  |
| 2.3-4   | R Values for Inhalation - Child   |                 |  |  |  |  |  |
| 2.3-5   | R Values for Inhalation - Infant  |                 |  |  |  |  |  |
| 2.3-6   | R Values for Ground   |                 |  |  |  |  |  |
| 2.3-7   | R Values for Vegetation - Adult   |                 | · .                                      |  |  |  |  |
| 2.3-8   | R Values for Vegetation - Teen  |                 |  |  |  |  |  |
| 2.3-9   | R Values for Vegetation - Child   |                 |  |  |  |  |  |
| 2.3-10  | R Values for Meat - Adult   |                 |  |  |  |  |  |
| 2.3-11  | R Values for Meat - Teen  |                 |  |  |  |  |  |
| 2.3-12  | R Values for Meat - Child   |                 |  |  |  |  |  |
| 2.3-13  | R Values for Cow Milk - Adult   |                 |  |  |  |  |  |
| 2.3-14  | R Values for Cow Milk - Teen  |                 |  |  |  |  |  |

|                           | Beaver Valley Power Station                                 | Procedure Nun<br>1 | nber:<br>/2-ODC-1.01                     |  |  |  |
|---------------------------|---|--------------------|--|--|--|--|
| Title:                    |   | Unit:<br>1/2       | Level Of Use:<br>General Skill Reference |  |  |  |
| ODCM:                     | Index, Matrix and History of ODCM Changes                   | Revision:<br>16    | Page Number:<br>75 of 98                 |  |  |  |
|                           | ATTACHMENT A  |                    | ••••••••••••••••••••••••••••••••••••••   |  |  |  |
| LIST OF ODCM TABLES       |   |                    |  |  |  |  |
| 2.3-15                    | R Values for Cow Milk - Child                               |                    |  |  |  |  |
| 2.3-16                    | R Values for Cow Milk - Infant                              |                    |  |  |  |  |
| 2.3-17                    | -17 R Values for Goat Milk - Adult                          |                    |  |  |  |  |
| 2.3-18                    | R Values for Goat Milk - Teen                               |                    |  |  |  |  |
| 2.3-19                    | R Values for Goat Milk - Child                              |                    |  |  |  |  |
| 2.3-20                    | 2.3-20 R Values for Goat Milk - Infant                      |                    |  |  |  |  |
| <u>CONTIN</u>             | UOUS RELEASE DEPOSITION PARAMETERS (0-5 Miles               | ) Included in 1    | Procedure 1/2-ODC-2.02                   |  |  |  |
| 2.3-21                    | BV-1 And 2 Process Vent (Elevated Release)                  |                    |  |  |  |  |
| 2.3-22                    | BV-1 And 2 Containment Vents (Ground Release)               |                    |  |  |  |  |
| 2.3-23                    | BV-1 And 2 Ventilation Vents (Ground Release)               |                    |  |  |  |  |
| 2.3-24                    | BV-1 And 2 Turbine Building Vents (Ground Release)          |                    |  |  |  |  |
| 2.3-25                    | BV-2 Condensate Polishing Building (Ground Release)         |                    |  |  |  |  |
| 2.3-26                    | BV-2 Decontamination Building Vent (Ground Release)         |                    |  |  |  |  |
| 2.3-27                    | BV-2 Waste Gas Storage Vault Vent (Ground Release)          |                    |  |  |  |  |
| <u>CONTIN</u><br>Procedur | UOUS RELEASE DEPOSITION PARAMETERS (SPECL<br>e 1/2-ODC-2.02 | <u>AL DISTA</u>    | NCES) Included in                        |  |  |  |
| 2.3-28                    | BV-1 And 2 Process Vent (Elevated Release)                  |                    |  |  |  |  |
| 2.3-29                    | BV-1 And 2 Containment Vents (Ground Release)               |                    |  |  |  |  |
| 2.3-30                    | BV-1 And 2 Ventilation Vents (Ground Release)               |                    |  |  |  |  |
| 2.3-31                    | BV-1 And 2 Turbine Building Vents (Ground Release)          |                    |  |  |  |  |
| 2.3-32                    | BV-2 Condensate Polishing Building (Ground Release)         |                    |  |  |  |  |
| 2.3-33                    | BV-2 Decontamination Building Vent (Ground Release)         |                    |  |  |  |  |
| 2.3-34                    | BV-2 Waste Gas Storage Vault Vent (Ground Release)          |                    |  |  |  |  |
|                           |   |                    |  |  |  |  |

|  | Beaver Valley Power Station Procedure Number:<br>1/2-ODC-1.01              |               |                    |  |  |  |  |  |
|--|--|---------------|--------------------|--|--|--|--|--|
| Unit:     Level Of Use:       1/2     General Skill Refer  |  |               |                    |  |  |  |  |  |
| ODCM: Index, Matrix and History of ODCM Changes           Revision:         Page Number:           16         76 of 98 |  |               |                    |  |  |  |  |  |
| ATTACHMENT A   |  |               |                    |  |  |  |  |  |
| Page 4 of 6<br>LIST OF ODCM TABLES   |  |               |                    |  |  |  |  |  |
| BATCH RELEASE DISPERSION PARAMETERS (Special Distances) Included in Procedure 1/2-                                     |  |               |                    |  |  |  |  |  |
| <u>ODC-2.02</u>  |  |               |                    |  |  |  |  |  |
| 2.3-35   | BV-1 And 2 Containment Vents (Ground Release)                              |               |                    |  |  |  |  |  |
| 2.3-36   | .3-36 BV-1 And 2 Ventilation Vents (Ground Release)                        |               |                    |  |  |  |  |  |
| 2.3-37   | BV-1 And 2 Process Vent (Elevated Release)                                 |               |                    |  |  |  |  |  |
| BATCH R  | ELEASE DISPERSION PARAMETERS (0-5 Miles) Inclue                            | led in Proc   | edure 1/2-ODC-2.02 |  |  |  |  |  |
| 2.3-38 BV-1 And 2 Process Vent (Elevated Release)  |  |               |                    |  |  |  |  |  |
| ENVIRON  | MENTAL MONITORING Included in Procedure 1/2-ODC                            | <u>2-2.03</u> |                    |  |  |  |  |  |
| 3.0-1  | 3.0-1 Radiological Environmental Monitoring Program                        |               |                    |  |  |  |  |  |
| DISPERS  | ON CALCULATION Included in Procedure 1/2-ODC-3.01                          |               |                    |  |  |  |  |  |
| A:1 BV-1 And 2 Release Conditions  |  |               |                    |  |  |  |  |  |
| INPUTS TO COMPUTER CODES Included in Procedure 1/2-ODC-3.01  |  |               |                    |  |  |  |  |  |
| B:1a   | Inputs To GALE Code For Generation Of BV-1 Liquid So                       | urce Term     | Mixes              |  |  |  |  |  |
| B:1b   | Inputs To SWEC LIQ1BB Code For Generation Of BV-2 Liquid Source Term Mixes |               |                    |  |  |  |  |  |
| B:2a   | Inputs To SWEC GAS1BB Code For Generation Of BV-1                          | Gaseous S     | ource Term Mixes   |  |  |  |  |  |
| B:2b   | Inputs To SWEC GAS1BB Code For Generation of BV-2                          | Gaseous So    | ource Term Mixes   |  |  |  |  |  |
| ODCM CO  | ONTROLS Included in Procedure 1/2-ODC-3.03                                 |               |                    |  |  |  |  |  |
| C:1.1  | Operational Modes  |               |                    |  |  |  |  |  |
| C:1.2  | Frequency Notation   |               |                    |  |  |  |  |  |
| C:3.3-6  | Radiation Monitoring Instrumentation                                       |               |                    |  |  |  |  |  |
| C:4.3-3  | Radiation Monitoring Instrumentation Surveillance Require                  | ements        |                    |  |  |  |  |  |
| C:3.3-12   | Radioactive Liquid Effluent Monitoring Instrumentation                     |               |                    |  |  |  |  |  |
| C:4.3-12   | Radioactive Liquid Effluent Monitoring Instrumentation Su                  | urveillance   | Requirements       |  |  |  |  |  |
| C:3.3-13   | C:3.3-13 Radioactive Gaseous Effluent Monitoring Instrumentation           |               |                    |  |  |  |  |  |

|   | Beaver Valley Power Station                                     | Procedure Nur<br>1                                      | nber:<br>/2-ODC-1.01                     |  |  |  |
|---|---|---|--|--|--|--|
| Title:  |   | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference |  |  |  |
| ODCM: In  | dex, Matrix and History of ODCM Changes                         | Revision:<br>16   | Page Number:<br>77 of 98                 |  |  |  |
|   | ATTACHMENT A  | <u></u>   | ·  |  |  |  |
|   | LIST OF ODCM TABLES   |   |  |  |  |  |
| C:4.3-13  | Radioactive Gaseous Effluent Monitoring Instrumentation         | Surveilland   | e Requirements                           |  |  |  |
| C:4.11-1  | Radioactive Liquid Waste Sampling And Analysis Program          | n   |  |  |  |  |
| C:4.11-2  | Radioactive Gaseous Waste Sampling And Analysis Progr           | Radioactive Gaseous Waste Sampling And Analysis Program |  |  |  |  |
| C:3.12-1  | 3.12-1 Radiological Environmental Monitoring Program            |   |  |  |  |  |
| C:3.12-2 Reporting Levels For Radioactivity Concentrations In Environmental Samples |   |   |  |  |  |  |
| C:4.12-1  | C:4.12-1 Maximum Values For The Lower Limits Of Detection (LLD) |   |  |  |  |  |
| FORMAT  | FOR ANNUAL REPORT Included in Procedure 1/2-ODC-                | <u>3.03</u>   |  |  |  |  |
| E:6.9-1 Environmental Radiological Monitoring Program Summary                       |   |   |  |  |  |  |
| ODCM CO   | ONTROLS PROCEDURE MATRIX Included in Procedure                  | <u>1/2-ODC-1</u>  | <u>.01</u>                               |  |  |  |
| F:1a  | BV-1 Radiation Monitoring Instrumentation Surveillance          |   |  |  |  |  |
| F:1b  | BV-2 Radiation Monitoring Instrumentation Surveillance          |   |  |  |  |  |
| F:2a  | BV-1 Liquid Effluent Monitor Surveillances                      |   |  |  |  |  |
| F:2b  | BV-2 Liquid Effluent Monitor Surveillances                      |   |  |  |  |  |
| F:3a  | a BV-1 Gaseous Effluent Monitor Surveillances                   |   |  |  |  |  |
| F:3b  | F:3b BV-2 Gaseous Effluent Monitor Surveillances                |   |  |  |  |  |
| F:4   | F:4 BV-1 and 2 Liquid Effluent Concentration Surveillances      |   |  |  |  |  |
| F:5   | F:5 BV-1 and 2 Liquid Effluent Dose Surveillances               |   |  |  |  |  |
| F:6   | BV-1 and 2 Liquid Effluent Treatment Surveillances              |   |  |  |  |  |
| <b>F</b> :7   | BV-1 and 2 Liquid Storage Tank Activity Limit Surveilland       | ces   |  |  |  |  |
| F:8   | BV-1 and 2 Gaseous Effluent Dose Surveillances                  |   |  |  |  |  |
| F:9   | BV-1 and 2 Gaseous Effluent Air Dose Surveillances              |   |  |  |  |  |
| F:10  | BV-1 and 2 Gaseous Effluent Particulate and Iodine Dose S       | Surveillance  | es                                       |  |  |  |
| F:11  | BV-1 and 2 Gaseous Effluent Treatment Surveillances             |   |  |  |  |  |
|   |   |   |  |  |  |  |

| Beaver Valley Power Station                     |   | Procedure Number:<br>1/2-ODC-1.01 |  |  |
|---|---|-----------------------------------|--|--|
| Title:  |   | Unit:<br>1/2                      | Level Of Use:<br>General Skill Reference |  |
| ODCM: Index, Matrix and History of ODCM Changes |   | Revision:<br>16                   | Page Number:<br>78 of 98                 |  |
|   | ATTACHMENT A<br>Page 6 of 6<br>LIST OF ODCM TABLES    |                                   |  |  |
| F:12a   | BV-1 Gaseous Storage Tank Activity Limit Surveillance | S                                 |  |  |
| F:12a   | BV-2 Gaseous Storage Tank Activity Limit Surveillance | es                                |  |  |
| F:13  | BV-1 and 2 Total Dose Surveillances                   |                                   |  |  |
| F:14  | BV-1 and 2 REMP Surveillances                         |                                   |  |  |
| F:15  | BV-1 and 2 Land Use Census Surveillances              |                                   |  |  |
| F:16  | BV-1 and 2 Interlaboratory Comparison Program         |                                   |  |  |
|   |   |                                   |  |  |

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|                             | Beaver Valley Power Station                             | Procedure Nun<br>1 | nber:<br>/2-ODC-1.01                     |
|-----------------------------|---|--------------------|--|
| Title:                      |   | Unit:<br>1/2       | Level Of Use:<br>General Skill Reference |
| ODCM: In                    | dex, Matrix and History of ODCM Changes                 | Revision:          | Page Number:<br>79 of 98                 |
|                             | ATTACHMENT B<br>Page 1 of 1<br>LIST OF ODCM FIGURES     | 10                 |  |
| LIQUID E                    | FFLUENTS Included in Procedure 1/2-ODC-2.01             |                    |  |
| 1.4-1                       | BV-1 Liquid Radwaste System                             |                    |  |
| 1.4-2                       | BV-2 Liquid Radwaste System                             |                    |  |
| 1.4-3                       | BV-1 and 2 Liquid Effluent Release Points               |                    |  |
| 5-1                         | Site Boundary For Liquid Effluents                      |                    |  |
| <u>GASEOU</u>               | S EFFLUENTS Included in Procedure 1/2-ODC-2.02          |                    |  |
| 2.4-1                       | BV-1 and 2 Gaseous Radwaste System                      |                    |  |
| 2.4-2                       | BV-1 and 2 Gaseous Effluent Release Points              |                    |  |
| 5-1                         | Site Boundary For Gaseous Effluents                     |                    |  |
| <u>RADIOLO</u><br>Procedure | OGICAL ENVIRONMENTAL MONITORING PROGRAM<br>1/2-ODC-2.03 | Included in        | 1  |
| 3.0-1                       | Air Sampling Locations                                  |                    |  |
| 3.0-2                       | TLD Locations   |                    |  |
| 3.0-3                       | Shoreline Sediment, Surface Water, And Drinking Water S | ampling Lo         | ocations                                 |
| 3.0-4                       | Milk Sampling Locations                                 |                    |  |
| 3.0-5                       | Foodcrop Sampling Locations                             |                    |  |
| 3.0-6                       | Fish Sampling Locations                                 |                    |  |
|                             |   |                    |  |
|                             |   |                    |  |
|                             |   |                    |  |
|                             |   |                    |  |
|                             |   |                    | Į  |

| Title:       1/2-ODC-1.01         Title:       Level of Use:         ODCM: Index, Matrix and History of ODCM Changes         ATTACHMENT C         Page 1 of 19         ODCM CONTROLS PROCEDURE MATRIX         BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR         DESCRIPTION         PROCEDURE         4.3.3.1         NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.  |              | <b>Beaver Valley Power</b>               | Station                                      | Procedure Nur  | $\frac{1}{2}$ $\frac{1}$ |
|---|--------------|--|--|----------------|--|
| Tide:       Unit:       Level Of Use:         ODCM:       Index, Matrix and History of ODCM Changes       I/2       General Skill Reference         Revision:       16       80 of 98         ATTACHMENT C         Page 1 of 19       ODCM CONTROLS PROCEDURE MATRIX         BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1:         Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY:         MODES 1 thru 4         ODCM SR         DESCRIPTION         PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3         Frequency       In the Operations & Rad Effluent Shift Logs. |              |  |  | <b>1</b>       | 72-0DC-1.01  |
| ODCM:       Index, Matrix and History of ODCM Changes       Index       Index       Page Number:       Page Number:       16       80 of 98         ATTACHMENT C<br>Page 1 of 19<br>ODCM CONTROLS PROCEDURE MATRIX         BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a<br>1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE<br>APPLICABILITY: MODES 1 thru 4         ODCM SR         DESCRIPTION         PROCEDURE         4.3.3.1         NOTE: Actions for INOPERABLE Monitors are documented<br>in the Operations & Rad Effluent Shift Logs.  | fitle:       |  |  | Unit:          | Level Of Use:  |
| ODCM: Index, Matrix and History of ODCM Changes       Revision: 16       Page Number: 80 of 98         ATTACHMENT C         Page 1 of 19         ODCM CONTROLS PROCEDURE MATRIX         BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR       DESCRIPTION         ODCEDURE         4.3.3.1         NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   |              |  |  | 1/2            | General Skill Reference  |
| Interpretation         ATTACHMENT C         Page 1 of 19         ODCM CONTROLS PROCEDURE MATRIX         BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR         DESCRIPTION         PROCEDURE         4.3.3.1         Test Monitors at Table 4.3-3         Frequency         4.3.3.1.1         NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   | ODCM: Inde   | ex, Matrix and History of ODCM           | Changes                                      | Revision:      | Page Number:   |
| ATTACHMENT C<br>Page 1 of 19<br>ODCM CONTROLS PROCEDURE MATRIX<br>BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES<br>TABLE F: 1a<br>1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE<br>APPLICABILITY: MODES 1 thru 4<br>ODCM SR DESCRIPTION PROCEDURE<br>4.3.3.1 Test Monitors at Table 4.3-3<br>Frequency<br>4.3.3.1.1 Noble Gas Effluent Monitors -<br>SPINGS NOTE: Actions for INOPERABLE Monitors are documented<br>in the Operations & Rad Effluent Shift Logs.   |              |  |  | 16             | 80 of 98   |
| Page 1 of 19<br>ODCM CONTROLS PROCEDURE MATRIX<br>BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES<br>TABLE F: 1a<br>1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE<br>APPLICABILITY: MODES 1 thru 4<br>ODCM SR DESCRIPTION PROCEDURE<br>4.3.3.1 Test Monitors at Table 4.3-3<br>Frequency<br>4.3.3.1.1 Noble Gas Effluent Monitors -<br>SPINGS NOTE: Actions for INOPERABLE Monitors are documented<br>in the Operations & Rad Effluent Shift Logs.   |              | ATT                                      | ACHMENT C                                    |                |  |
| ODCM CONTROLS PROCEDURE MATRIX         BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR DESCRIPTION PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3         Frequency       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.  |              | Р  | Page 1 of 19                                 |                |  |
| BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR       DESCRIPTION       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   |              | ODCM CONTRO                              | LS PROCEDURE MAT                             | RIX            |  |
| BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR       DESCRIPTION       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   |              |  |  |                |  |
| BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR       DESCRIPTION       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   |              |  |  |                |  |
| BV-1 RADIATION MONITORING INSTRUMENTION SURVEILLANCES         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4         ODCM SR       DESCRIPTION       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   |              |  |  |                |  |
| Description Monitoring Instrumention SonveilLances         TABLE F: 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3         Frequency       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -         SPINGS       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   |              |  |  |                |  |
| TABLE F. 1a         1/2-ODC-3.03, Attachment D Control 3.3.3.1: Maintain Radiation Monitoring Channels in Table 3.3-6 OPERABLE         APPLICABILITY: MODES 1 thru 4       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3         Frequency       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -         SPINGS       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.  |              | BV-1 RADIATION MONITOR                   | ING INSTRUMENTION SURV                       | EILLANCES      |  |
| ODCM SR       DESCRIPTION       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -<br>SPINGS       NOTE: Actions for INOPERABLE Monitors are documented<br>in the Operations & Rad Effluent Shift Logs.   |              | Attachment D Control 3 3 3 1: Maintain F | Radiation Monitoring Channels                | in Table 3.3.  |  |
| ODCM SR       DESCRIPTION       PROCEDURE         4.3.3.1       Test Monitors at Table 4.3-3<br>Frequency       Frequency         4.3.3.1.1       Noble Gas Effluent Monitors -<br>SPINGS       NOTE: Actions for INOPERABLE Monitors are documented<br>in the Operations & Rad Effluent Shift Logs.  | APPLICABILIT | V: MODES 1 thru 4                        | radiation monitoring channels                | III TADIE 5.5- | OFERABLE   |
| ODCM SR         DESCRIPTION         PROCEDURE           4.3.3.1         Test Monitors at Table 4.3-3<br>Frequency         Frequency           4.3.3.1.1         Noble Gas Effluent Monitors -<br>SPINGS         NOTE: Actions for INOPERABLE Monitors are documented<br>in the Operations & Rad Effluent Shift Logs.  |              |  |  |                |  |
| 4.3.3.1       Test Monitors at Table 4.3-3         Frequency       NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.  | ODCM SR      | DESCRIPTION                              | PROCEDURE                                    |                |  |
| Frequency         NOTE: Actions for INOPERABLE Monitors are documented in the Operations & Rad Effluent Shift Logs.   | 4331         | Test Monitors at Table 4 3-3             |  |                |  |
| 4.3.3.1.1 Noble Gas Effluent Monitors - NOTE: Actions for INOPERABLE Monitors are documented<br>SPINGS In the Operations & Rad Effluent Shift Logs.   |              | Frequency                                |  |                |  |
| SPINGS in the Operations & Rad Effluent Shift Logs.   | 4.3.3.1.1    | Noble Gas Effluent Monitors -            | NOTE: Actions for INOPE                      | RABLE Moni     | tors are documented  |
|   |              | SPINGS                                   | in the Operations & Rad Effluent Shift Logs. |                |  |
| 4.3.3.1.1.a Supplementary Leak Collection and 1MSP-43.59-1: Channel Calibration   | 4.3.3.1.1.a  | Supplementary Leak Collection and        | 1MSP-43.59-I: Channel Cali                   | bration        |  |
| Release System Form 1/2-ADM-1611.F03: Channel Check   |              | Release System                           | Form 1/2-ADM-1611.F03: Channel Check         |                |  |
| (RM-1VS-110 CH7 & CH9) 10ST-43.7: Channel Operational Test  |              | (RM-1VS-110 CH7 & CH9)                   | 10ST-43.7: Channel Operat                    | ional Test     |  |
| 4.3.3.1.1.b Auxiliary Building Ventilation System 1MSP-43.60-I: Channel Calibration   | 4.3.3.1.1.b  | Auxiliary Building Ventilation System    | 1MSP-43.60-I: Channel Cali                   | bration        |  |
| (RM-1VS-109 CH7 & CH9) Form 1/2-ADM-1611.F03: Channel Check   |              | (RM-1VS-109 CH7 & CH9)                   | Form 1/2-ADM-1611 F03: Channel Check         |                |  |
| 10ST-43.07: Channel Operational Test  |              |  | 10ST-43.07: Channel Opera                    | ational Test   |  |
| 4.3.3.1.1.c Process Vent System (RM-1GW-109   1MSP-43.58-I: Channel Calibration   | 4.3.3.1.1.c  | Process Vent System (RM-1GW-109          | 1MSP-43.58-I: Channel Calibration            |                |  |
| CH7 & 9) Form 1/2-ADM-1611.FU3: Channel Check   |              | CH7 & 9)                                 | Form 1/2-ADM-1611.F03: Channel Check         |                |  |
| 1051-43.7: Channel Operational Test   | 40010        | Nable Cas Otaans Efficient               | 1051-43.7: Channel Operat                    | Ional Lest     |  |
| 4.3.3.1.2 Noble Gas Steam Emilient NUTE: Actions for INOPERABLE Monitors are documented<br>Monitors   | 4.3.3.1.2    | Monitors                                 | in the Operations & Rad Ef                   | HABLE MONI     | tors are documented  |
| 4.2.2.1.2 si Atmospheria Steam Dump Valva and I MSD 4.2.2.1 Mai MS 1004 Chapped Collibration  | 422120       | Atmospheric Steem Dump Value and         | 1MSD 42 62 L DM 1MS 100                      | A Channel C    | alibration   |
| v 1 2a Code Safety Valve Discharge 1MSF-43.62-1. RM-1MS-100R Channel Calibration  | v 1 2a       | Code Safety Valve Discharge              | 1MSP-43.62-1. RM-1MS-100                     | B Channel C    | alibration   |
| (BMINS1004 B C) IMSP43 64-I: BM-1MS-100C Channel Calibration  | v.1.2a       | (BM-1MS-100A B C)                        | 1MSP-43 64-1 BM-1MS-100                      | C Channel C    | alibration   |
| Form 1/2-ADM-1611.F03: Channel Check  |              |  | Form 1/2-ADM-1611.F03: CI                    | nannel Check   |  |
| 10ST-43.5: Channel Operational Test   |              |  | 10ST-43.5: Channel Operat                    | ional Test     |  |
| 4.3.3.1.2.b Auxiliary Feedwater Pump Turbine 1MSP-43.65-I: Channel Calibration  | 4.3.3.1.2.b  | Auxiliary Feedwater Pump Turbine         | 1MSP-43.65-I: Channel Calil                  | bration        |  |
| Exhaust (RM-1MS-101) Form 1/2-ADM-1611.F03: Channel Check   |              | Exhaust (RM-1MS-101)                     | Form 1/2-ADM-1611.F03: Cl                    | nannel Check   | : F  |
| 10ST-43.5: Channel Operational Test   |              |  | 10ST-43.5: Channel Operati                   | ional Test     |  |
|   |              | ······································   |  |                |  |
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|  | Beaver Valley Power  | Station  | Procedure Nur                        | nber:<br>/2-ODC-1.01                     |
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| Title:                                     | . <u> </u>   |  | Unit:<br>1/2                         | Level Of Use:<br>General Skill Reference |
| ODCM: Inc                                  | lex, Matrix and History of ODCM  | 1 Changes  | Revision:<br>16                      | Page Number:<br>81 of 98                 |
| TABLE F: 1b<br>1/2-ODC-3.03<br>APPLICABILI | AT<br>ODCM CONTR<br>BV-2 RADIATION MONITO<br>3. Attachment D Control 3.3.3.1: Maintain<br>TY: MODES 1 thru 4 | TACHMENT C<br>Page 2 of 19<br>OLS PROCEDURE MAT<br>RING INSTRUMENTION SUR<br>Radiation Monitoring Channels | RIX<br>VEILLANCES<br>s in Table 3.3- | 6 OPERABLE                               |
| ODCM SR                                    | DESCRIPTION  | PF   | ROCEDURE                             |  |
| 4.3.3.1                                    | Liest Monitors at Table 4.3-3  |  |                                      |  |

| 4.3.3.1                 | Test Monitors at Table 4.3-3<br>Frequency                             |  |
|-------------------------|---|--|
| 4.3.3.1.1               | Noble Gas Effluent Monitors   | NOTE: Actions for INOPERABLE Monitors are documented<br>in the Operations & Rad Effluent Shift Logs.             |
| 4.3.3.1.2.<br>c.i.1.1.a | Supplementary Leak Collection and<br>Release System (2HVS-RQ109C & D) | 2MSP-43.33-I: Channel Calibration<br>Form 1/2-ADM-1611.F04: Channel Check<br>2OST-43.8: Channel Operational Test |

| Level Of Use:<br>General Skill Refere:<br>Page Number:<br>82 of 98                                   |  |  |
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| General Skill Refere<br>Page Number:<br>82 of 98<br>RABLE<br>are documented in the                   |  |  |
| RABLE  |  |  |
| are documented in the  |  |  |
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| NOTE: Actions for INOPERABLE monitors are documented in the<br>Operations & Rad Effluent Shift Logs. |  |  |
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| Form 1/2-ADM-1611.F03: Channel Check   |  |  |
| are documented in the  |  |  |
| 2-111-03.04  |  |  |
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| al Test (3a)   |  |  |
| al Test (3a)<br>Test (3b)  |  |  |
|  |  |  |
| Channel Checks   |  |  |
| al Test  |  |  |
| on<br>Inal Test  |  |  |
| on   |  |  |
| nal Test<br>Channel Checks   |  |  |
| <u>:k</u>  |  |  |
| are documented in the  |  |  |
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| ng to Tank)  |  |  |
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| ng to Tank)  |  |  |
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| up to Tank)  |  |  |
| ng to Tank)<br>Test  |  |  |
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|   | Beaver Valley Power  | Station   | Procedure N  | umber:<br>1/2-ODC-1.01   |
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| DDCM: Ind                                   | ex, Matrix and History of ODCM   | I Changes   | Revision:<br>16  | Page Number:<br>83 of 98   |
|   | AT   | TACHMENT C  |  |  |
|   | ODCM CONTRO  | DLS PROCEDURE MA  | ATRIX  |  |
|   | BV-2 LIQUID EFFL   | UENT MONITOR SURVEIL  | LANCES   |  |
| TABLE F: 2b<br>1/2-ODC-3.03<br>APPLICABILIT | <u>, Attachment E Control 3.3.3.9</u> : Maintain<br><u>IY</u> : During Releases Through The Flow | Liquid Effluent Monitors in <sup>-</sup><br>Paths   | Table 3.3-12 OF  | PERABLE  |
| ODCM SB                                     | DESCRIPTION  | PROCEDUBE   |  |  |
| 4.3.3.9                                     | Test Monitors at Table 4.3-12<br>Frequency   |   |  |  |
| 4.3.3.9.1                                   | Monitors Providing Alarm and<br>Automatic Termination  | NOTE: Actions for INOPERABLE monitors are documented<br>in the Operations & Rad Effluent Shift Logs.  |  |  |
| 4.3.3.9.1.a                                 | Liquid Waste Process Effluent<br>Monitor<br>(2SGC-RQ100)   | Form 1/2-ADM-1611.F04<br>Form 1/2-ENV-05.04.F0<br>2MSP-43.39-I: Channel<br>1/2OM-17.4A.C: Source<br>2OM-25.4.L: Source Cha<br>2OM-25.4.N: Source Cha<br>2OST-43.3: Channel Fur              | 4: Channel Chec<br>1: Source Chec<br>Calibration<br>Check<br>eck<br>eck<br>eck<br>nctional Test  | ck<br>K  |
| 4.3.3.9.2                                   | Flow Rate Measurement Devices  | NOTE: Actions for INO<br>in the Operations & Ra<br>05.04  | PERABLE moi<br>d Effluent Shift  | nitors are documented<br>Logs and 1/2-ENV-   |
| 4.3.3.9.2.a                                 | Liquid Radwaste Effluent<br>(2SGC-FIS100)  | 2MSP-25.01-I: 2SGC-P2<br>2MSP-25.01-I: 2SGC-P2<br>2MSP-43.39-I: Channel<br>Form 1/2-ADM-1611.F04<br>2OM-54.3 L5 Log: Chan   | 6A,B Channel (<br>6A,B Channel (<br>Calibration<br>4: Channel Chec<br>nel Check  | Calibration<br>Operational Test<br>ck  |
| 4.3.3.9.2.b                                 | Cooling Tower Blowdown Line<br>Pri: [FT-1CW-101-1]<br>Alt: [FT-1CW-101] and [2CWS-FT101]         | 1MSP-31.04-1: FT-CW-101<br>1MSP-31.05-1: FT-CW-101<br>1MSP-31.06-1: FT-CW-101-<br>1MSP-31.07-1: FT-CW-101-<br>2MSP-31.07-1: 2CWS-FT10<br>2MSP-31.05-1: 2CWS-FT10<br>10M-54-31.51: 2CWS-FT10 | Channel Calibrati<br>Channel Operatio<br>1 Channel Calibra<br>1 Channel Operat<br>1 Channel Calibra<br>1 Channel Operat<br>01-1 & FL-CW-11 | on<br>nal Test<br>ation<br>tional Test<br>ation<br>tional Test<br>1 Channel Checks |

| Beaver Valley Power Station                     | Procedure Number:<br>1/2-ODC-1.01 |  |  |
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| ODCM: Index, Matrix and History of ODCM Changes | Revision:<br>16                   | Page Number:<br>84 of 98                 |  |
| ATTACHMENT C                                    |                                   |  |  |
| Page 5 of 19                                    |                                   |  |  |
| ODCM CONTROLS PROCEDURE                         | MATRIX                            |  |  |
| <b>BV-1 GASEOUS EFFLUENT MONITOR SUR</b>        | VEILLANCES                        |  |  |

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 TABLE F: 3a

 <u>1/2-ODC-3.03, Attachment F Control 3.3.3.10</u>: Maintain Gaseous Effluent Monitors in Table 3.3-13 OPERABLE

 <u>APPLICABILITY</u>: During Releases Through The Flow Paths

| ODCM SR   | DESCRIPTION  | PROCEDURE  |  |  |
|---|--|--|--|--|
| 4.3.3.10  | Test Monitors at Table 4.3-13<br>Frequency   |  |  |  |
| 4.3.3.10.1 Gaseous Waste / Process Vent<br>System System NOTE: Actions for INOPERABLE monitors at<br>in the Operations & Rad Effluent Shift Logs a<br>05.05 |  | NOTE: Actions for INOPERABLE monitors are documented<br>in the Operations & Rad Effluent Shift Logs and 1/2-ENV-<br>05.05  |  |  |
| 4.3.3.10.1.a  | Noble Gas Activity Monitor<br>Pri: (RM-1GW-108B)<br>Alt: (RM-1GW-109 Ch 5): for<br>continuous releases only, not an<br>alternate for batch releases          | 1MSP-43.22-I: Channel Calibration<br>1OM-19.4.E, H: Channel Check (Batch Release)<br>1OM-19.4.E, H: Source Check<br>1/2-OM-19.4A.D: Source Check<br>1/2-OM-19.4A.D: Channel Check (Batch Release)<br>1OST-43.9D: Channel Functional Test<br>1OST-43.7A: RM-1GW-109 Channel Functional Test<br>Form 1/2-ADM-1611.F03: Channel Check |  |  |
| 4.3.3.10.1.b  | Particulate & lodine Sampler<br>Pri: Filter Paper and Charcoal<br>Cartridge for (RM-1GW-109)<br>Alt: Filter Paper and Charcoal<br>Cartridge for (RM-1GW-110) | Form 1/2-ADM-1611.F03: Channel Check   |  |  |
| 4.3.3.10.1.c  | System Effluent Flow Rate<br>Measuring Device<br>Pri: (FR-1GW-108)<br>Alt: (RM-1GW-109 Ch 10)  | 1MSP-19.05-I: Channel Operational Test<br>1MSP-19.06-I: Channel Calibration<br>Form 1/2-ADM-1611.F03: Channel Check  |  |  |
| 4.3.3.10.1.d  | Sampler Flow Rate Measuring<br>Device<br>Pri: (RM-1GW-109 Ch 15)<br>Alt: (Rotometer: FM-1GW-101 and<br>Vacuum Gauge: PI-1GW-135<br>for RM-1GW-110)           | 1MSP-43.21-I: Channel Calibration<br>Form 1/2-ENV-01.04.F01: Channel Operational Test<br>Form 1/2-ADM-1611.F03: Channel Check  |  |  |
| 4.3.3.10.2  | Auxiliary Building Ventilation<br>System (Ventilation Vent)  | NOTE: Actions for INOPERABLE monitors are documented<br>in the Operations & Rad Effluent Shift Logs and 1/2-ENV-<br>05.05  |  |  |
| 4.3.3.10.2.a  | Noble Gas Activity Monitor<br>Pri: (RM-1VS-101B)<br>Alt: (RM-1VS-109 Ch 5)   | 1MSP-43.13-I: Channel Calibration<br>1OST-43.7A: RM-1VS-109 Channel Functional Test<br>1OST-43.9J: Channel Functional Test<br>1OST-43.9A: Source Check<br>Form 1/2-ADM-1611.F03: Channel Check   |  |  |
| 4.3.3.10.2.b  | Particulate & Iodine Sampler<br>Pri: Filter Paper and Charcoal<br>Cartridge for (RM-1VS-109)<br>Alt: Filter Paper and Charcoal<br>Cartridge for (RM-1VS-111) | Form 1/2-ADM-1611.F03: Channel Check   |  |  |
| 4.3.3.10.2.c  | System Effluent Flow Rate<br>Measuring Device<br>Pri: (FR-1VS-101)<br>Alt: (RM-1VS-109 Ch 10)  | 1MSP-44.07-I: Channel Operational Test<br>1MSP-44.08-I: Channel Calibration<br>Form 1/2-ADM-1611.F03: Channel Check  |  |  |

|   | Beaver Valley Power  | Station   | Procedure Nu             | mber: $1/2 \text{ ODC} 1.01$          |
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| Title:  |  | Unit:   | Level Of Use:            |                                       |
|   |  |   | <u>1/2</u>               | General Skill Reference               |
| DDCM: Index, Matrix and History of ODCM Changes |  | Changes   | Revision:                | Page Number:<br>85 of 98              |
|   | ATT  | ACHMENT C   |                          | ·······                               |
|   | F  | Page 6 of 19  |                          |                                       |
|   | ODCM CONTRO  | LS PROCEDURE MAT  | RIX                      |                                       |
|   | <b>BV-1 GASEOUS EFFL</b>   | UENT MONITOR SURVEILLA                                  | NCES                     |                                       |
| FABLE F: 3a                                     |  | Continued   |                          |                                       |
| I <u>/2-ODC-3.03, A</u><br>APPLICABILITY:       | ttachment F Control 3.3.3.10: Maintain<br>During Releases Through The Flow P | Gaseous Effluent Monitors in<br>aths                    | Table 3.3-13             | OPERABLE                              |
| ODCM SR   | DESCRIPTION  | PB  | OCEDURE                  | · · · · · · · · · · · · · · · · · · · |
| 4.3.3.10.2.d                                    | Sampler Flow Rate Measuring  | 1MSP-44.07-I: Channel Fun                               | ctional Test             |                                       |
|   | Pri: (RM-1VS-109 Ch 15)  | Form 1/2-ENV-01.04.F01 Cl                               | pration<br>nannel Opera  | ational Test                          |
|   | Alt: (Rotometer: FM-1VS-102 and  | Form 1/2-ADM-1611.F03: C                                | hannel Chec              | k                                     |
|   | for RM-1VS-111)  |   |                          |                                       |
| 4.3.3.10.3                                      | Rx Containment / SLCRS   | NOTE: Actions for INOPE<br>in the Operations & Bad E    | RABLE mor                | itors are documented                  |
|   |  | 05.05   |                          |                                       |
| 4.3.3.10.3.a                                    | Noble Gas Activity Monitor<br>Pri: (BM-1VS-107B)                             | 1MSP-43.20-I: Channel Cali<br>10M-54.3 L5 Log: RM-1VS-  | bration<br>107B Chann    | el Check                              |
|   | Alt: (RM-1VS-110 Ch 5)   | 10ST-43.7A: RM-1VS-110 (                                | Channel Fun              | ctional Test                          |
| •   |  | 10ST-43.9L: Channel Funct<br>10ST-43.9A: Source Check   | Ional Test               |                                       |
| 4221005   | Derticulate & Leding Complex   | Form 1/2-ADM-1611.F03: C                                | hannel Chec              | k                                     |
| 4.3.3.10.3.D                                    | Pri: Filter Paper and Charcoal   | FOIM 1/2-ADM-1011.F03. C                                | nanner Chec              | ĸ                                     |
|   | Cartridge for (RM-1VS-110)   |   |                          |                                       |
|   | Cartridge for (RM-1VS-112)   |   |                          |                                       |
| 4.3.3.10.3.c                                    | System Effluent Flow Rate  | 1MSP-44.09-I: Channel Cali<br>1MSP-44 10-I: Channel Ope | bration<br>rational Test |                                       |
|   | Pri: (FR-1VS-112)  | Form 1/2-ADM-1611.F03: C                                | nannel Chec              | k                                     |
| 4.3.3.10.3.d                                    | Sampler Flow Rate Measuring  | 1MSP-43.19-I: Channel Cali                              | bration                  |                                       |
|   | Device<br>Pri: (BM-1)(S-110 Cb 15)   | Form 1/2-ENV-01.04.F01: C                               | hannel Oper              | ational Test                          |
|   | Alt: (Rotometer: FM-1VS-103 and  |   |                          | · · · ·                               |
|   | Vacuum Gauge: PI-1VS-660   |   |                          | 1                                     |

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| Unit:         | Level Of Use: |

Unit:

ODCM: Index, Matrix and History of ODCM Changes

1/2Revision: Page Number: 16

86 of 98

General Skill Reference

## ATTACHMENT C Page 7 of 19

## ODCM CONTROLS PROCEDURE MATRIX

## **BV-2 GASEOUS EFFLUENT MONITOR SURVEILLANCES** Continued

TABLE F: 3b

<u>1/2-ODC-3.03, Attachment F Control 3.3.3.10</u>: Maintain Gaseous Effluent Monitors in Table 3.3-13 OPERABLE <u>APPLICABILITY</u>: During Releases Through The Flow Paths

| ODCM SR      | DESCRIPTION   | PROCEDURE  |  |  |
|--------------|---|--|--|--|
| 4.3.3.10     | Test Monitors at Table 4.3-13<br>Frequency  |  |  |  |
| 4.3.3.10.1   | SLCRS Unfiltered Pathway<br>(Ventilation Vent)  | NOTE: Actions for INOPERABLE monitors are documented<br>in the Operations & Rad Effluent Shift Logs and<br>1/2-ENV-05.05   |  |  |
| 4.3.3.10.1.a | Noble Gas Activity Monitor<br>Pri: (2HVS-RQ101B)  | 2MSP-43.36-I: Channel Calibration<br>2OST-43.9A: Channel Functional Test<br>Form 1/2-ADM-1611.F04: Channel Check<br>2-HPP-4.02.018 Source Check (DRMS Auto Function)   |  |  |
| 4.3.3.10.1.b | Particulate & lodine Sampler<br>Pri: Filter Paper and Charcoal<br>Cartridge for (2HVS-RQ101A)   | Form 1/2-ADM-1611.F04: Channel Check   |  |  |
| 4.3.3.10.1.c | Process Flow Rate Monitor<br>Pri: (Monitor Item 29 for 2HVS-<br>VP101)  | 2MSP-43.36-I: Channel Calibration<br>2MSP-43.36A-I: Channel Operational Test<br>Work Request: Channel Calibration (Velocity Probe)<br>Form 1/2-ADM-1611.F04: Channel Check   |  |  |
| 4.3.3.10.1.d | Sampler Flow Rate Monitor<br>Pri: (2HVS-FIT101-1)   | 2MSP-43.36-I: Channel Calibration<br>2MSP-43.36A-I: Channel Operational Test<br>Form 1/2-ADM-1611.F04: Channel Check   |  |  |
| 4.3.3.10.2   | SLCRS Filtered Pathway<br>(Elevated Release)  | NOTE: Actions for INOPERABLE monitors are documented<br>in the Operations & Rad Effluent Shift Logs and<br>1/2-ENV-05.05   |  |  |
| 4.3.3.10.2.a | Noble Gas Activity Monitor<br>Pri: (2HVS-RQ109B)  | 2MSP-43.32-I: 2HVS-RQ109A Channel Calibration<br>2MSP-43.33-I: 2HVS-RQ109B,C,D Channel Calibration<br>2OST-43.8: Channel Functional Test<br>Form 1/2-ADM-1611.F04: Channel Check<br>2-HPP-4.02.018 Source Check (DRMS Auto Function) |  |  |
| 4.3.3.10.2.b | Particulate & lodine Sampler<br>Pri: Filter Paper and Charcoal<br>Cartridge for (2HVS-RQ109A)   | Form 1/2-ADM-1611.F04: Channel Check   |  |  |
| 4.3.3.10.2.c | Process Flow Rate Monitor<br>Pri: (Monitor Item 29 for 2HVS-<br>FR22)<br>1 <sup>st</sup> Alt: (2HVS-FI22A and FI22C)<br>2 <sup>rd</sup> Alt: (2HVS-FI22B and FI22D) | 2MSP-43.32A-I: Channel Operational Test<br>2MSP-43.33-I: 2HVS-RQ109B,C,D, Channel Calibration<br>Form 1/2-ADM-1611.F04: Channel Check  |  |  |
| 4.3.3.10.2.d | Sampler Flow Rate Monitor<br>Pri: (Monitor Items 28 & 72 for<br>2HVS-DAU109A)   | 2MSP-43.32-I: 2HVS-RQ109A Channel Calibration<br>2MSP-43.32A-I: Channel Operational Test<br>2MSP-43.33-I: 2HVS-RQ109B,C,D, Channel Calibration<br>Form 1/2-ADM-1611.F04: Channel Check   |  |  |

| Beaver Valley Power Station                |   | Procedure Number:  |   |                                 |  |
|--|---|--|---|---------------------------------|--|
| -  |   |  |   | 1/2-ODC-1.01                    |  |
| htle:                                      | de:   |  | Unit:<br>1/2                                    | General Skill Reference         |  |
| ODCM: Inde                                 | x, Matrix and History of ODCM   | Changes  | Revision:<br>16                                 | Page Number:<br>87 of 98        |  |
|  | AT  | TACHMENT C   |   |                                 |  |
|  |   | Page 8 of 19   |   |                                 |  |
|  | ODCM CONTRO   | DLS PROCEDURE MATI   | RIX   |                                 |  |
|  | BV-2 GASEOUS EFF  | LUENT MONITOR SURVEILLA<br>Continued   | NCES  |                                 |  |
| TABLE F: 3b<br>1/2-ODC-3.03, APPLICABILITY | Attachment F Control 3.3.3.10: Maintair<br><u>/</u> : During Releases Through The Flow I      | n Gaseous Effluent Monitors in <sup>-</sup><br>Paths   | Table 3.3-13                                    | OPERABLE                        |  |
| ODCM SB                                    | DESCRIPTION   | PRO  | DCEDURE   |                                 |  |
| 4.3.3.10.3                                 | Decontamination Building<br>Vent  | NOTE: Actions for INOPER<br>in the Operations & Rad Eff<br>1/2-ENV-05.05   | ABLE monit<br>luent Shift L                     | tors are documented<br>Logs and |  |
| 4.3.3.10.3.a                               | Noble Gas Activity Monitor<br>Pri: (2RMQ-RQ301B)  | 2MSP-43.35-I: Channel Calibration<br>2OST-43.9B: Channel Functional Test<br>2-HPP-4.02.018 Source Check (DRMS Auto Function)<br>Form 1/2-ADM-1611.F04: Channel Check |   |                                 |  |
| 4.3.3.10.3.b                               | Particulate & lodine Sampler<br>Pri: Filter Paper and Charcoal<br>Cartridge for (2RMQ-RQ301A) | Form 1/2-ADM-1611.F04: Channel Check   |   |                                 |  |
| 4.3.3.10.3.d                               | Sampler Flow Rate Monitor<br>Pri: (2RMQ-FIT301-1)   | 2MSP-43.35-I: Channel Calibration<br>2MSP-43.35A-I: Channel Operational Test<br>Form 1/2-ADM-1611.F04: Channel Check   |   |                                 |  |
| 4.3.3.10.4                                 | Condensate Polishing Building<br>Vent   | NOTE: Actions for INOPERABLE monitors are documented<br>in the Operations & Rad Effluent Shift Logs and<br>1/2-ENV-05.05   |   |                                 |  |
| 4.3.3.10.4.a                               | Noble Gas Activity Monitor<br>Pri: (2HVL-RQ112B)  | 2MSP-43.38-I: Channel Calibi<br>2OST-43.9C: Channel Functio<br>Form 1/2-ADM-1611.F04: Cha<br>2-HPP-4.02.018 Source Chec  | ation<br>onal Test<br>annel Check<br>k (DRMS Au | to Function)                    |  |
| 4.3.3.10.4.b                               | Particulate & lodine Sampler<br>Pri: Filter Paper and Charcoal<br>Cartridge for (2HVL-RQ112A) | Form 1/2-ADM-1611.F04: Cha   | annel Check                                     |                                 |  |
| 4.3.3.10.4.d                               | Sampler Flow Rate Monitor<br>Pri: (2HVL-FIT112-1)   | 2MSP-43.38-I: Channel Calibr<br>2MSP-43.38A-I: Channel Ope<br>Form 1/2-ADM-1611.F04: Cha   | ation<br>rational Test<br>annel Check           |                                 |  |
| 4.3.3.10.5                                 | Waste Gas Storage Vault Vent  | NOTE: Actions for INOPERABLE monitors are documented<br>in the Operations & Rad Effluent Shift Logs and<br>1/2-ENV-05.05   |   |                                 |  |
| 4.3.3.10.5.a                               | Noble Gas Activity Monitor<br>Pri: (2RMQ-RQ303B)  | 2MSP-43.37-I: Channel Calibration<br>2OST-43.9D: Channel Functional Test<br>Form 1/2-ADM-1611.F04: Channel Check<br>2-HPP-4 02 018 Source Check (DBMS Auto Function) |   |                                 |  |
| 4.3.3.10.5.b                               | Particulate & Iodine Sampler<br>Pri: Filter Paper and Charcoal<br>Cartridge for (2RMQ-RQ303A) | Form 1/2-ADM-1611.F04: Cha   | innel Check                                     |                                 |  |
| 4.3.3.10.5.d                               | Sampler Flow Rate Monitor<br>Pri: (2RMQ-FIT303-1)   | 2MSP-43.37-I: Channel Calibr<br>2MSP-43.37A-I Channel Oper<br>Form 1/2-ADM-1611.F04: Cha   | ation<br>ational Test<br>innel Check            |                                 |  |

|                      | Beaver Valley Power                   | Station                          | Procedure N    | umber:<br>1/2-00C-1-01                   |
|----------------------|---------------------------------------|----------------------------------|----------------|--|
| fitle:               |                                       | <u> </u>                         | Unit:          | Level Of Use:<br>General Skill Reference |
| DDCM: Inde           | x, Matrix and History of ODCM         | I Changes                        | Revision:      | Page Number:                             |
| <u></u>              | AT                                    | TACHMENT C                       | <u>AV</u>      |  |
|                      |                                       | Page 9 of 19                     |                |  |
|                      | ODCM CONTRO                           | OLS PROCEDURE MAT                | RIX            |  |
|                      | <b>BV-1 AND 2 LIQUID EFFLU</b>        | IENT CONCENTRATION SUR           | VEILLANCE      | S  |
| TABLE F: 4           |                                       |                                  |                |  |
| 1/2-ODC-3.03,        | Attachment G Control 3.11.1.1: Mainta | in Effluent Concentration within | 10 Times 10    | CFR20 EC's                               |
| APPLICABILIT         | <u>/</u> : At All Times               |                                  |                |  |
| ODCM SR              | DESCRIPTION                           | PF                               | OCEDURE        | ·····                                    |
| 4.11.1.1.1.A         | Batch Waste Release Tanks:            | 1/2-CHM-ANA-5.3: LW Com          | positing       |  |
|                      | Sample and Analyze Radioactive        | Form 1/2-ADM-1611.F03 & I        | -04: LW Tanl   | k Sampling,                              |
|                      | Liquid Wastes per Table 4.11-1        | Form 1/2-HPP-3.06.001.F01        | : Activity Che | r Sampling                               |
| 411111P              | Continuous Poloasos:                  | Form 1/2-ADM-1611 E03 &          | - Had Monito   | ( Sampling                               |
| 4. ( ]. (. I. I. J.D | Sample and Analyze Badioactive        | Form 1/2-HPP-3.06.001 E01        | · Activity Che | ck Becord                                |
|                      | Liquid Wastes per Table 4.11-1        | Form 1/2-HPP-4.02.002.F02        | : Rad Monito   | r Sampling                               |
| 411112               | Use ODCM Methodology to               | Form 1/2-ENV-05.04 F01: B        | NDA-L          |  |
|                      | Assure Compliance                     | 1/20M-17.4A.D: RWDA-L            |                |  |
| 4.11.1.1.3           | Take Turbine Building Grab            | Form 1/2-ADM-1611.F03 & F        | 04: Sump Sa    | ampling.                                 |
|                      | Sample When BV-1 Primary to           | Form 1/2-HPP-3.06.001.F01        | : Activity Che | ck Record                                |
|                      | Secondary Leakage Exceeds 0.1         | Form 1/2-ENV-05.04.F01: R        | NDA-L          |  |
|                      | gpm (142 gpd)                         | Form 1/2-HPP-4.02.002.F02        | : Rad Monito   | r Sampling                               |
| 4.11.1.1.4           | Obtain Turbine Building Grab          | Form 1/2-ADM-1611.F03 & F        | 04: Sump Sa    | ampling,                                 |
|                      | Sample When BV-2 Primary to           | Form 1/2-HPP-3.06.001.F01        | : Activity Che | ck Record                                |
|                      | Secondary Leakage Exceeds 0.1         | Form 1/2-ENV-05.04.F01: R        | NDA-L          |  |
|                      | gpm (142 gpd)                         | Form 1/2-HPP-4.02.002.F02        | : Rad Monito   | r Sampling                               |
|                      |                                       |                                  |                |  |
| 4.11.1.1.5           | Obtain Grab Samples Prior to BV-      | Form 1/2-ADM-1611.F03 & F        | 04: Sump Sa    | ampling,                                 |
|                      | 2 Recirculation Drain Pump            | Form 1/2-HPP-3.06.001.F01        | Activity Che   | ck Record                                |
|                      | Discharge to Catch Basin No. 16       | 20M-9.2: KX Plant Vents and      | Drains (CB-    | .16)                                     |
|                      |                                       | 2014-9.4F: Drain RSS Pump        | Casing / Pit   |  |

7-26-12

|                    | Beaver Valley Power Station   |  | Procedure Number:<br>1/2-ODC-1.01 |  |  |
|--------------------|---|--|-----------------------------------|--|--|
| Title:             |   |  | Unit:                             | Level Of Use:<br>General Skill Reference |  |
| ODCM: Ind          | lex, Matrix and History of ODCM   | [ Changes  | Revision:                         | Page Number:                             |  |
| l                  | AT  | TACHMENT C   | 16                                | 89 of 98                                 |  |
|                    | l   | Page 10 of 19  |                                   |  |  |
|                    | ODCM CONTRO   | OLS PROCEDURE MAT                                      | RIX                               |  |  |
|                    | BV-1 AND 2 LIQUID   | EFFLUENT DOSE SURVEILLA                                | NCES                              |  |  |
| TABLE F: 5         |   |  |                                   |  |  |
| <u>APPLICABILI</u> | <u>, Attachment H Control 3.11.1.2</u> : Liquid I<br><u>TY</u> : At All Times | Effluent Dose  |                                   |  |  |
| ODCM SR            | DESCRIPTION   | PR   | OCEDURE                           | · · · · · · · · · · · · · · · · · · ·    |  |
| 4.11.1.2.1         | Using the ODCM - Determine<br>Cumulative Dose From Liquid                     | Form 1/2-ENV-05.04.F01: RV<br>SAP Order (Issue NPD3NRE | VDA-L<br>Letter: Montl            | nly Dose Projection)                     |  |
| ¦ L                | Effluents Every 31 Days   | 1/20M-17.4A.D: RWDA-L                                  |                                   |  |  |
|                    |   |  |                                   |  |  |
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| Beaver Valley Power Station |   | Procedure Number:<br>1/2-ODC-1.01                 |                 |                         |
|-----------------------------|---|---|-----------------|-------------------------|
| Title:                      |   |   | Unit:           | Level Of Use:           |
|                             |   |   | 1/2             | General Skill Reference |
| ODCM: Inc                   | lex, Matrix and History of ODCM                                 | I Changes   | Revision:<br>16 | Page Number:            |
|                             | AT  | TACHMENT C  | 10              |                         |
|                             | I   | Page 11 of 19                                     |                 |                         |
|                             | ODCM CONTRO   | OLS PROCEDURE MATI                                | RIX             |                         |
|                             | <b>BV-1 AND 2 LIQUID EFF</b>                                    | LUENT TREATMENT SURVE                             | LLANCES         |                         |
| TABLE F: 6                  |   |   |                 |                         |
| 1/2-ODC-3.03<br>APPLICABILI | 3, Attachment I Control 3.11.1.3: Liquid Et<br>TY: At All Times | ffluent Treatment System                          |                 |                         |
|                             |   |   |                 |                         |
| 4.11.1.3.1                  | Using the ODCM - Project the Liquid                             | Form 1/2-ENV-05.04.F01: RW                        | DCEDURE         |                         |
|                             | Release Dose Every 31 Days                                      | SAP Order (Issue NPD3NRE<br>1/20M-17.4A.D: RWDA-L | Letter: Month   | ly Dose Projection)     |
|                             |   |   |                 |                         |
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| Beaver Valley Power Station   |   | Procedure Number:<br>1/2-ODC-1.01  |  |   |
|---|---|--|--|---|
| Title:  | itle:   |  | Unit:  | Level Of Use:                                       |
| ODCM: Ind   | lex, Matrix and History of ODCM   | Changes  | <u>1/2</u><br>Revision:<br>16  | General Skill Reference<br>Page Number:<br>91 of 98 |
|   | AT  | TACHMENT C   | 10   | <u> </u>  |
|   | F   | Page 12 of 19  |  |   |
|   | ODCM CONTRO   | OLS PROCEDURE MATI   | RIX  |   |
|   | <b>BV-1 AND 2 LIQUID STORAGE</b>  | TANK ACTIVITY LIMIT  | SURVEIL  | LANCES  |
| TABLE F: 7<br>1/2-ODC-3.03  | 3. Attachment J Control 3.11.1.4: Maintair  | h Liquid Tank Activity within the  | following limit  | s:  |
| $\leq$ 18 Curies in<br>$\leq$ 18 Curies in L<br>$\leq$ 7 Curies in L<br>$\leq$ 6 Curies in L<br>$\leq$ 62 Curies in L<br>$\leq$ 10 Curies in<br>APPLICABILI | Unit 1 Primary Grade Water Storage Tar<br>Unit 1 Primary Grade Water Storage Tar<br>Jnit 1 Steam Generator Drain Tank [1LW-<br>Jnit 1 Steam Generator Drain Tank [1LW-<br>Jnit 1 Refueling Water Storage Tank [105<br>Unit 2 Refueling Water Storage Tank [205<br>Unit 1 and Unit 2 miscellaneous tempora<br>TY: At All Times | nk [1BR-TK-6A]<br>nk [1BR-TK-6B]<br>-TK-7A]<br>-TK-7B]<br>S-TK-1]<br>SSS-TK21]<br>ry outside radioactive liquid stor   | age tanks.   |   |
|   |   | PR   | CEDURE   |   |
| SR  |   |  |  | i   |
| 4.11.1.4.1  | Every 7 days Analyze a tank sample<br>when radioactive material is added to<br>tanks except the RWST's.<br>For RWST's, analyze sample within 7<br>days of reactor cavity drain down<br>back to the RWST.  | Form 1/2-HPP-3.06.001.F01:<br>Form 1/2-ENV-05.04.F01: RW<br>1OM-8.4.Z: Recirculate Test T<br>1OM-17.4.AJ: LW Transfer to<br>1OM-54.3 L5 Log Item 197:<br>1OM-54.3 L5 Log Item 132:<br>1OM-54.3 L5 Log Item 134:<br>1OM-54.3 L5 Log Item 200:<br>2OM-17.4B: LW to SG Blowdo | Activity Chec<br>/DA-L<br><sup>-</sup> anks Thru Io<br>1LW-TK-7A8<br><u>own Tank</u> | k Record<br>n Exchanger<br>B                        |
| <u></u>   | <u> </u>  |  | <u></u>  | i   |
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| DCM Index              | Matrix and History of ODCM           | Changes  | Revision:           | Page Number:         |  |
|------------------------|--------------------------------------|--|---------------------|----------------------|--|
|                        |                                      |  |                     | 92 of 98             |  |
|                        | ATT                                  | ACHMENT C  |                     |                      |  |
|                        |                                      | age 13 of 19   |                     |                      |  |
|                        | ODCM CONTRO                          | LS PROCEDURE MAIL  | KIX                 |                      |  |
|                        | <b>BV-1 AND 2 GASEOUS</b>            | EFFLUENT DOSE SURVEILI   | ANCES               |                      |  |
| TABLE F: 8             |                                      |  |                     |                      |  |
| 1/2-ODC-3.03, At       | tachment K Control 3.11.2.1: Gaseous | Effluent Dose Rates  |                     |                      |  |
| APPLICABILITY:         | At All Times                         |  |                     |                      |  |
| ODCM SR                | DESCRIPTION                          | PR   | OCEDURE             |                      |  |
| 4.11.2.1.1             | Using the ODCM - Determine the       | Form 1/2-ENV-05.05.F01: RWE                                    | DA-G                | e Permit             |  |
|                        | Noble Gas Effluent Dose Rate         | Form 1/2-HPP-3.06.012.F01: A                                   | bnormal Gase        | ous Releases         |  |
|                        |                                      | 10M-19.4E, H: RWDA-G for Ur                                    | hit 1 GWDT's        |                      |  |
| 4.11.2.1.2             | Sample and Analyze per Table         | e 4.11-2 to Determine Inhalation Pathway Dose                  |                     |                      |  |
| 4.11.2.1.2.A           | Waste Gas Storage Tank -             | Form 1/2-ADM-1611.F03 & F04                                    | : GW Tank Sa        | mpling               |  |
|                        | Grab Sample Each Tank                | Form 1/2-HPP-3.06.003.F01: G                                   | W Tank Samp<br>)A-G | ling                 |  |
|                        |                                      | Form 1/2-HPP-4.02.002.F02: R                                   | ad Monitor Sar      | npling               |  |
| 4.11.2.1.2.B           | Grab Sample Fach Purge               | Form 1/2-ADM-1611.F03 & F04                                    | A-G                 | mpling               |  |
|                        |                                      | Form NOP-OP-4702-01: Air Sat                                   | mple Record         | molina               |  |
| 4.11.2.1.2.C           | Ventilation Systems                  | 10/11/12-1111-4.02.002.102.11                                  |                     | inpang               |  |
| 4.11.2.1.2.C.1         | BV-1 Grab and Continuous             | Form 1/2-ADM-1611.F03 & F04                                    | : GW Tank Sa        | mpling               |  |
| thru<br>4 11 2 1 C 3   | Samples                              | Form 1/2-HPP-4.02.002.F02: R                                   | ad Monitor Sar      | npling               |  |
| and                    |                                      | Form 1/2-HPP-4.02.017.F01-90                                   | : RMS & DRM         | S Valve Verification |  |
| 4.11.2.1.2.D.1         |                                      | 1-HPP-5.01.002: SPING-4 Eme                                    | rgency Operat       | ion                  |  |
| 4.11.2.1.2.D.3         |                                      |  |                     |                      |  |
| 4.11.2.1.2.C.4         | BV-2 Grab and Continuous             | Form 1/2-ADM-1611.F03 & F04                                    | : GW Tank Sa        | mpling               |  |
| thru<br>4 11 2 1 2 C 8 | Samples                              | Form 1/2-ENV-01.03.F01: Contil<br>Form 1/2-HPP-4.02.002.F02: R | ad Monitor Sar      | npling               |  |
| and                    |                                      | Form 1/2-HPP-4.02.017.F01-90                                   | : RMS & DRM         | S Valve Verification |  |
| 4.11.2.1.2.D.4         |                                      | 2-de r -5.04.001. Emergency O                                  |                     | aw Assenioly         |  |
| uru<br>4.11.2.1.2.D.8  |                                      |  |                     |                      |  |
|                        | 1                                    | H <u></u>  |                     |                      |  |

7-26-13

|              | Beaver Vallev Powe                     | er Station   | Procedure Nu               | mber: $1/2 ODC 1 O1$                  |
|--------------|--|--|----------------------------|---------------------------------------|
| Title:       |  |  | Unit:                      | Level Of Use:                         |
|              | lex Matrix and History of ODC          | M Changes  | 1/2<br>Revision:           | General Skill Referen<br>Page Number: |
|              |  |  | 16                         | 93 of 98                              |
|              | A                                      | ATTACHMENT C   |                            |                                       |
|              | ODCM CONT                              | ROLS PROCEDURE MAT   | RIX                        |                                       |
|              | BV-1 AND 2 GASEOU                      | S FEELLIENT AIR DOSE SHRVE                                     |                            |                                       |
|              |  |  | LEANOLO                    |                                       |
| 1/2-ODC-3.03 | 3. Attachment L Control 3.11.2.2: Gase | ous Effluent Air Doses   |                            |                                       |
| APPLICABILI  | <u>TY</u> : At All Times               |  |                            |                                       |
| ODCM<br>SB   | DESCRIPTION                            | PRO  | CEDURE                     |                                       |
| 4.11.2.2.1   | Using the ODCM - Determine the         | Form 1/2-ENV-05.05.F01: RWD                                    | A-G                        | - ·-                                  |
|              | Contributions Every 31 Days            | Form 1/2-ENV-01.03.F01: Conti<br>Form 1/2-HPP-3.06.012.F01: At | nuous Relea<br>onormal Gas | se Permit<br>eous Releases            |
|              |  | Form 1/2-HPP-4.02.002.F02: Ra                                  | ad Monitor Satter: Monthly | ampling<br>Dose Projection)           |
|              |  |  |                            |                                       |
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|              | Beaver Vallev Power                   | Station                           | Procedure Nun<br>1 | 1000000000000000000000000000000000000 |
| Title        |                                       |                                   | Unit:              | Level Of Use:                         |
| 1100.        |                                       |                                   | 1/2                | General Skill Reference               |
| ODCM Ind     | ex Matrix and History of ODCM         | Changes                           | Revision:          | Page Number:                          |
|              |                                       |                                   | 16                 | <u>94 of 98</u>                       |
|              | AT                                    | FACHMENT C                        |                    |                                       |
|              | F                                     | Page 15 of 19                     |                    |                                       |
|              | ODCM CONTRO                           | OLS PROCEDURE MAT                 | RIX                |                                       |
|              | BV-1 AND 2 GASEOUS EFFLUENT PA        | ARTICULATE AND IODINE DO          | DSE SURVEII        | LLANCES                               |
| TABLE F: 10  |                                       |                                   |                    |                                       |
| 1/2-ODC-3.03 | Attachment M Control 3.11.2.3: Gaseou | is Effluent Particulate And Iodir | ne Doses           |                                       |
| APPLICABILIT | Y: At All Times                       |                                   |                    |                                       |
| ODCM         | DESCRIPTION                           | PR                                | OCEDURE            |                                       |
| SR           |                                       |                                   |                    |                                       |
| 4.11.2.3.1   | Using the ODCM - Determine the        | Form 1/2-ENV-05.05.F01: RV        | VDA-G              |                                       |
|              | Particulate & Radioiodine Cumulative  | Form 1/2-ENV-01.03.F01: Co        | ntinuous Rele      | ease Permit                           |
|              | Dose Contributions Every 31 Days      | Form 1/2-HPP-3.06.012.F01:        | Abnormal Ga        | Seous Releases                        |
|              |                                       | SAP Order (Issue NPD3NRE          | Letter: Month      | ly Dose Projection)                   |
|              |                                       |                                   | Y                  | · ·                                   |
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|                            |                       | Beaver Valley Power  | Station                    | Procedure Nu | <sup>mber:</sup><br>1/2-ODC-1.01         |
| Title:                     |                       |  | <u> </u>                   | Unit:<br>1/2 | Level Of Use:<br>General Skill Reference |
| ODC                        | CM: Ind               | ex, Matrix and History of ODCM   | Changes                    | Revision:    | Page Number:                             |
|                            | _                     | AT   | TACHMENT C                 | 16           | 95 of 98                                 |
|                            |                       | Р  | age 16 of 19               |              |  |
|                            |                       | ODCM CONTRO  | LS PROCEDURE MAT           | RIX          |  |
|                            |                       | <b>BV-1 AND 2 GASEOUS EF</b>   | FLUENT TREATMENT SURV      | EILLANCES    |  |
| ТАВ                        | LE F: 11              |  |                            |              |  |
| <u>172-0</u><br><u>APP</u> | LICABILIT             | <u>Attachment N Control 3. 11.2.4</u> : Gaseou<br><u>'Y</u> : At All Times | s Ennent Treatment System  |              |  |
| 0                          | DCM                   | DESCRIPTION  | PR                         | OCEDURE      |  |
| 4.1                        | <u>\$R</u><br>1.2.4.1 | Using the ODCM - Project the Gas   | Form 1/2-ENV-05.05.F01: R  | WDA-G        |  |
|                            |                       | Release Dose from the Site Every 31  | Form 1/2-ENV-01.03.F01: Co | ontinuous Re | lease Permit                             |
|                            | ~                     | Days   | SAP Order (Issue NPD3NRE   | Letter: Mont | hly Dose Projection)                     |
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| Beaver Valley Power  | Station   | Procedure Nu           | umber:<br>1/2-ODC-1.01                   | 7      |
|--|---|------------------------|--|--------|
| Title:   |   | Unit:<br>1/2           | Level Of Use:<br>General Skill Reference | 1      |
| ODCM: Index, Matrix and History of ODCM  | Changes   | Revision:              | Page Number:<br>96 of 98                 |        |
| ATT<br>P<br>ODCM CONTRO<br>BV-1 GASEOUS STOBAGE  | FACHMENT C<br>age 17 of 19<br>DLS PROCEDURE MAT             |                        | 3  |        |
| <b>TABLE F: 12a</b><br><u>1/2-ODC-3.03, Attachment O Control 3.11.2.5</u> : Maintain<br>1GW-TK-1A: <52000 Curies Noble Gas (Considered Xe<br>1GW-TK-1B: <52000 Curies Noble Gas (Considered Xe<br>1GW-TK-1B: <52000 Curies Noble Gas (Considered Xe<br><u>APPLICABILITY</u> : At All Times | n Gas Storage Tank Activity w<br>e-133)<br>e-133)<br>e-133) | vithin the follow      | ving limits:                             |        |
| ODCM DESCRIPTION   | PI  | ROCEDURE               |  |        |
| 4.11.2.5.1 Determine Tank Gas Contents when<br>Adding Rad Material & (RCS Activity<br>>100uCi/ml)  | Form 1/2-HPP-3.06.003.F0<br>1OM-19.4.G: GW Disposal         | 1: GW Tank S<br>System | ampling                                  | -26-12 |
|  |   |                        |  |        |
|  |   |                        |  |        |
| BV-2 GASEOUS STORAGE   | TANK ACTIVITY LIMIT SUR                                     | VEILLANCES             | 3  |        |
| BV-2 GASEOUS STORAGE<br>TABLE F: 12b<br>1/2-ODC-3.03, Attachment O Control 3.11.2.5: Maintain  | TANK ACTIVITY LIMIT SUR                                     | VEILLANCES             | ag limit:                                |        |

APPLICABILITY: At All Times

| ODCM SR    | DESCRIPTION  | PROCEDURE  |  |
|------------|--|--|--|
| 4.11.2.5.1 | Determine Gaseous Waste Tank<br>Rad Material-When-Adding-Rad | Form 1/2-HPP-3.06.003.F01: GW Tank Sampling<br>2OM-19.2: GW Precautions & Limitations. |  |
|            |  | 20M-13.40. GW transfer from onit 2<br>20M-54.3 L5 Log Item 133                         |  |

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|---------------------------------------|--|--|---|---|
| Title:                                |  |  | Unit:<br>1/2  | Level Of Use:<br>General Skill Reference              |
| ODCM: Ind                             | lex, Matrix and History of ODCM  | I Changes  | Revision:   | Page Number:  |
|                                       | AT   | TACHMENT C   | 10  | 97 01 98  |
|                                       | I<br>ODCM CONTRO   | Page 18 of 19<br>DLS PROCEDURE MAT   | RIX   |   |
|                                       | BV-1 AND 2 TO  | DTAL DOSE SURVEILLANCES  | 6   |   |
| TABLE F: 13                           |  |  |   |   |
| 1/2-ODC-3.03<br>APPLICABILI           | <u>, Attachment P Control 3.11.4.1</u> : Liquid A<br>T <u>Y</u> : At All Times                         | And Gaseous Doses  |   |   |
| ODCM                                  | DESCRIPTION  | PR   | OCEDURE   |   |
| 4.11.4.1.1                            | Using the ODCM - Determine<br>Cumulative Gas & Liquid Dose per<br>Control 3.11.1.2, 3.11.2.2, 3.11.2.3 | Form 1/2-ENV-01.05.F01: Ar<br>Form 1/2-ENV-05.04.F01: RV<br>Form 1/2-ENV-05.05.F01: RV<br>Form 1/2-ENV-01.03.F01: Co<br>Form 1/2-HPP-3.06.012.F01: | nual RETS f<br>VDA-L<br>VDA-G<br>ontinuous Re<br>Abnormal G | Report (40CFR190)<br>lease Permit<br>laseous Releases |
|                                       | <u> </u>   | 1/2-ENV-01.04: Ellipent Data   | Logs (40CF  | R190)   |
|                                       |  |  |   |   |
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| Title:   | beaver valley Power   | Station   | 1 roccuro re  | 1/2-ODC-1 01                                 |
|--|---|---|---|--|
|  |   |   | Unit:   | Level Of Use:<br>General Skill Refere        |
| DDCM: In   | dex, Matrix and History of ODCM   | Changes   | Revision:   | Page Number:                                 |
|  | ۸٣  | TACHMENT C  | 16  | <u>98 of 98</u>                              |
|  | F   | Page 19 of 19   |   |  |
|  | ODCM CONTRO   | OLS PROCEDURE MAT   | RIX   |  |
|  | BV-1 AND 2 REM  | P PROGRAM SURVEILLANC   | ES  |  |
| TABLE F: 14  | 4   |   |   |  |
| 1/2-ODC-3.0<br>APPLICABIL  | <u>3, Attachment Q Control 3.12.1</u> : Radiologi<br><u>.ITY</u> : At All Times   | cal Environmental Monitoring F  | rogram (REI   | MP)  |
| ODCM   | DESCRIPTION   | PF  | OCEDURE   |  |
| SR<br>4 12 1 1   | Lising Locations in the ODCM -Collect   | 1/2-ENIV-02 01: Badiologica   | Environme   | ntal Monitoring Program                      |
| 4.12.1.1   | and Analyze Samples per Tables 3.12-<br>1, 3.12-2 & 4.12-1  | 1/2-ENV-03.01: Environmer   | tal Sampling  |  |
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| ΔRI E E • 14   | 5   |   |   |  |
| /2-ODC-3.0   | 3, Attachment R Control 3.12.2: Land Use  | Census  |   |  |
| PPLICABIL  | ITY: At All Times   |   |   |  |
| ODCM   | DESCRIPTION   | PR  | OCEDURE   |  |
| 4.12.2.1   | Using the Best Available Method -   | 1/2-ENV-02.01: Radiologica  | I Environmei<br>ulations  | ntal Monitoring Program                      |
|  | Conduct a Land Use Census Yearly  |   |   |  |
|  | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  |   |   |  |
|  | Between 6/1 & 10/1  |   |   |  |
|  | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  |   |   |  |
|  | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  |   |   |  |
|  | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  |   |   |  |
| ABLE F: 16   | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | nton: Comparison Program  |   |  |
| ABLE F: 16<br>/2-ODC-3.0<br>IPPLICABIL   | Between 6/1 & 10/1<br>3. <u>Attachment S Control 3.12.3</u> : Interlabora   | atory Comparison Program  |   |  |
| ABLE F: 16<br>/2-ODC-3.0<br>IPPLICABIL   | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1<br>3. Attachment S Control 3.12.3: Interlabora<br>ITY: At All Times<br>DESCRIPTION | atory Comparison Program  | OCEDURE   |  |
| ABLE F: 16<br>/2-ODC-3.0<br>PPLICABIL<br>ODCM<br>SR<br>4.12.3.1  | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRO<br>1/2-ENV-02.01: Radiological I  | DCEDURE<br>Environment  | al Monitoring Program                        |
| ABLE F: 16<br>/2-ODC-3.0<br>PPLICABIL<br>ODCM<br>SR<br>4.12.3.1  | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRC<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with P/<br>Spike Sample Program with P/                                  | DCEDURE<br>Environment  | al Monitoring Program                        |
| ABLE F: 16           /2-ODC-3.0:           IPPLICABIL           ODCM           SR           4.12.3.1   | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRC<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with PA<br>Spike Sample Program with In<br>1/2-ENV-01.05: Section 4 of A | DCEDURE<br>Environmenta<br>N-DEP<br>Independent I<br>NREOR Tem  | al Monitoring Program<br>Laboratory          |
| TABLE F: 16           1/2-ODC-3.0:           APPLICABIL           ODCM           SR           4.12.3.1 | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRC<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with PA<br>Spike Sample Program with In<br>1/2-ENV-01.05: Section 4 of A | DCEDURE<br>Environmenta<br>I-DEP<br>Independent I<br>INREOR Tem | al Monitoring Program<br>_aboratory<br>plate |
| TABLE F: 16           1/2-ODC-3.0           APPLICABIL           ODCM           SR           4.12.3.1  | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRO<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with PA<br>Spike Sample Program with In<br>1/2-ENV-01.05: Section 4 of A | DCEDURE<br>Environmenta<br>I-DEP<br>Idependent I<br>IREOR Tem   | al Monitoring Program<br>_aboratory<br>olate |
| ABLE F: 16           /2-ODC-3.0:           \PPLICABIL           ODCM           SR           4.12.3.1   | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRC<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with PA<br>Spike Sample Program with In<br>1/2-ENV-01.05: Section 4 of A | DCEDURE<br>Environmenta<br>I-DEP<br>Independent I<br>IREOR Tem  | al Monitoring Program<br>_aboratory<br>olate |
| ABLE F: 16         /2-ODC-3.0         \PPLICABIL         ODCM         SR         4.12.3.1              | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRO<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with PA<br>Spike Sample Program with In<br>1/2-ENV-01.05: Section 4 of A | DCEDURE<br>Environment<br>A-DEP<br>Independent I<br>NREOR Tem   | al Monitoring Program<br>Laboratory          |
| ABLE F: 16           /2-ODC-3.0:           \PPLICABIL           ODCM           SR           4.12.3.1   | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRC<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with PA<br>Spike Sample Program with I<br>1/2-ENV-01.05: Section 4 of A  | DCEDURE<br>Environmenta<br>-DEP<br>adependent I<br>NREOR Tem    | al Monitoring Program<br>Laboratory<br>plate |
| ABLE F: 16         /2-ODC-3.0:         \PPLICABIL         ODCM         SR         4.12.3.1             | Conduct a Land Use Census Yearly<br>Between 6/1 & 10/1  | atory Comparison Program<br>PRO<br>1/2-ENV-02.01: Radiological I<br>Split Sample Program with PA<br>Spike Sample Program with In<br>1/2-ENV-01.05: Section 4 of A | DCEDURE<br>Environment<br>A-DEP<br>Independent I<br>AREOR Tem   | al Monitoring Program<br>_aboratory<br>plate |